

**SOUTH COAST AIR QUALITY MANAGEMENT
DISTRICT RULE 1150.1**

**FIRST QUARTER 2006 MONITORING REPORT
BRADLEY LANDFILL AND RECYCLING CENTER
SUN VALLEY, CALIFORNIA**

Prepared for

Waste Management of California, Inc.

Bradley Landfill and Recycling Center

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Abbreviations

CARB	California Air Resources Board
FID	Flame Ionization Detector
GEM-500	CES-LANDTEC Gas Extraction Monitor
LFG	Landfill Gas
OVA	Organic Vapor Analyzer
PPB	Parts per Billion
PPM	Parts per Million
SCAQMD	South Coast Air Quality Management District
TGNMO	Total Gaseous Non-methane Organic Compounds
TOC	Total Organic Compounds

1 EXECUTIVE SUMMARY

This first quarter report for the year 2006 summarizes the monitoring and sampling results at the Bradley Landfill and Recycling Center (BLRC) for compliance with South Coast Air Quality Management District (SCAQMD) Rule 1150.1(f)(2)(B) and pursuant to the conditions set forth in the Alternative Rule 1150.1 Compliance Plan (SCAQMD A/N 394147) approved by SCAQMD on June 19, 2002.

1.1 Site Description and Background

The Bradley Landfill and Recycling Center (BLRC) is located in the Sun Valley District of Los Angeles, California, in the northwest portion of the Los Angeles metropolitan area. The landfill is owned and operated by Waste Management Recycling and Disposal Services of California, Inc. (WMRDSC, formerly Valley Reclamation Company). The site was previously utilized as a sand and gravel pit by Conrock Company. Waste Management of Los Angeles Hauling Company also operates on the BLRC property. The landfill is a Class III waste disposal facility occupying approximately 209 acres. A site map containing the current landfill boundary and locations of landfill gas (LFG) extraction wells is presented as Figure 1.

An active LFG migration/emissions control system has been in operation at the site since 1982. During normal operation, the higher BTU value LFG is processed through the gas treatment plant and delivered to one (1) on-site and one (1) offsite LFG-to-energy facility. Run Energy currently operates the on-site facility under contract by Waste Management, Inc. The off-site facility is owned by Penrose Landfill Gas Conversion, LLC. The on-site facility operated by Run Energy was placed into service on March 3, 2003. The lower BTU value gas (under 500 BTU/cf) collected from the Bradley east and the Bradley west perimeter is disposed of through the BLRC flare stations. When the higher BTU value LFG is not in demand by either of the LFG-to-energy facilities, the gas is routed to one of the on-site flare stations where it is combusted in accordance with SCAQMD rules and permit conditions.

1.2 Gas Collection and Control System

The BLRC LFG collection and control system (GCCS) consists of three (3) LFG flares, one LFG compressor, vertical extraction wells, header and subheader piping, and a

condensate injection system. The LFG collection series consist of header collection pipes, laterals, vertical extraction wells and horizontal collectors. Presently, the system has 128 vertical dual completion wells and 77 single completion vertical wells for a total of 200 wells. In addition, the system has 7 horizontal collectors.

Condensate currently drains by gravity to 15 collection sumps where it is pumped to the LFG treatment plant for processing. Condensate processing consists of hydrocarbon separation, condensate injection into the flares, and pH adjustment for discharge to the City of Los Angeles sanitary sewer system. As the hydrocarbon phase is accumulated, it is transferred to the larger hydrocarbon storage tank where it accumulates until transported off-site in accordance with all applicable regulations.

1.3 Monitoring and Sampling Activities Summary

Field activities performed by Shaw Environmental, Inc. (Shaw) during this quarter included:

- Monthly subsurface perimeter probe monitoring (as required by the Local Enforcement Agency)
- Quarterly integrated surface emission monitoring and sampling for laboratory analysis
- Quarterly instantaneous surface emission monitoring
- Quarterly flare inlet LFG sampling for laboratory analysis
- Quarterly ambient air monitoring (24-hour)
- SCAQMD Rule 431.1 Sulfur Monitoring

AtmAA, Inc. performed the laboratory analysis for two (2) integrated surface emission samples, a gas compressor LFG sample, flare inlet LFG samples, ambient air sample(s), and monthly perimeter probe samples from the probes with the highest field-obtained TOC as methane concentration. The integrated surface samples were analyzed for toxic air contaminants (Toxic Air Contaminants--Core Group, Guidelines for Implementation of Rule 1150.1, Table 1), methane, and total gaseous non-methane organic compounds (TGNMOs) as stipulated by SCAQMD's Rule 1150.1. The flare inlet LFG samples were analyzed for the concentration of fixed gases, hydrogen sulfide, and toxic air contaminants. The ambient air samples were analyzed for toxic air contaminants, methane, and total gaseous non-methane organic compounds (TGNMOs). Toxic air contaminants were analyzed by gas chromatograph/mass spectrometry consistent with Environmental Protection Agency (EPA) Method TO-15. Fixed gases were analyzed by

gas chromatograph/thermal conductivity detector using EPA Method 3C Modified. Total gaseous non-methane organics (TGNMOs) were analyzed using modified EPA Method 25C with gas chromatograph/flame ionization detection/total combustion analysis. A gas chromatograph/sulfur chemiluminescence detector was used to analyze for hydrogen sulfide per SCAQMD Rule 431.1 and the Rule 431.1 Alternative Monitoring Plan (A/N 267044), and analyzed using SCAQMD Method 307-91.

1.3.1 Subsurface Perimeter Probe Monitoring §1150.1(e)(1)

Monthly subsurface perimeter probe monitoring was performed using a Landtec GEM-2000 LFG monitor during the quarter. Perimeter probes were monitored for percent methane by volume in air.

Alternative monitoring procedures are used in the area of perimeter probe E-8D, including monitoring of the probe and performing surface emission monitoring of Grid 31-D, as specified in the Rule 1150.1 Compliance Plan for Bradley Landfill. These alternative monitoring procedures are implemented when TOC as methane concentrations meet or exceed five (5) percent by volume, measured as methane. Field and laboratory data from subsurface perimeter probe monitoring and laboratory TOC concentrations as methane are discussed in Section 2.2 and presented in Appendix A. Samples from the probes with the highest field-obtained TOC as methane concentrations are sent to AtmAA Inc. for laboratory analysis.

1.3.2 Integrated Surface Emission Monitoring §1150.1(e)(2)

The TOC as methane concentration collected from each grid is listed in Table 3-1, Integrated Surface Sampling Field Summary. Field data sheets are presented in Appendix B. All of the integrated TOC as methane readings were within compliance limits, as set forth by SCAQMD Rule 1150.1. Typically, the two samples having the highest field TOC as methane concentrations are sent to the laboratory for further analysis. The TOC as methane background reading was 5.0 ppm. During surface emissions monitoring, TOC as methane concentrations above background were no more than 15 ppm. Samples from Grids 111 and 112 were selected for laboratory analysis.

RES Environmental obtained samples from Grids 111 and 112 and submitted them for laboratory analysis for methane, TGNMOs, and Toxic Air Contaminants.

Laboratory analysis of the samples collected from Grid 111 detected low-level concentrations (less than 5 parts per billion [ppb]) of the following constituents: benzene, carbon tetrachloride, toluene, and xylenes. Laboratory analysis of the samples collected from Grid 111 detected concentrations of methane at 16.5 parts per million [ppm].

Laboratory analysis of the samples collected from Grid 111 detected low-level concentrations (less than 5 ppm) of TGNMO.

Laboratory analysis of the samples collected from Grid 112 detected low-level concentrations (less than 5 ppb) of the following constituents: benzene, carbon tetrachloride, toluene, and xylenes. Laboratory analysis of the samples collected from Grid 112 detected concentrations of methane at 2.19 ppm. Laboratory analysis of the samples collected from Grid 111 detected low-level concentrations of TGNMO (less than 5 ppm) of methane. The laboratory reports are presented in Appendix B.

1.3.3 Instantaneous Surface Emission Monitoring §1150.1(e)(3)

Instantaneous surface emission monitoring was conducted on January 16 and 18, February 8, and March 20, 2006, and consisted of monitoring the landfill surface for the presence of LFG emissions. Total organic compound (TOC) measurements (measured in ppm as methane) were recorded in accordance with procedures described in the SCAQMD Guidelines for Implementation of Rule 1150.1. Areas of the landfill where TOC as methane concentrations were greater than 500 ppm TOC as methane were remonitored within 10 calendar days of the original detection. Instantaneous surface emission monitoring field data are presented in Appendix C.

On January 16 and 18, 2006 instantaneous monitoring of Grids 2, 56, 64, 71, 84, 85, 93, 90, 96, 103, 106, 110, 111, and 112 had detected concentrations ranging from 1,000 to 100,000 ppm TOC as methane. These grids were repaired on January 16 and 18, 2006 and 10-day re-monitoring occurred on January 20, and 24, 2006. The re-monitored concentrations for all grids except Grids 84 and 112 measured less than 500 ppm TOC as methane. Grids 84 and 112 were repaired on January 20 and 24, 2006. A second re-monitoring was performed on these grids on January 25, 2006 and TOC concentrations measured below 500 ppm.

On February 8, 2006, instantaneous monitoring of Grids 1, 2, 3, 5, 33, 78, 85, 87, 89, 93, 107, 111, and 112 had detected concentrations over 500 ppm TOC as methane. Concentrations ranged from 1,000 to 100,000 ppm. These grids were repaired on February 8, 2006 and 10-day re-monitoring was performed on February 16 and 17, 2006. Re-monitored concentrations for all grids except Grids 5, 87, 93, and 111 all measured below 500 ppm. Grids 5 and 87 were repaired on February 16 and a second re-monitoring was performed on February 24, 2006. Grids 93 and 111 were repaired on February 16 and 17, respectively and a second re-monitoring for these grids was performed on February 22, 2006. TOC concentrations in Grids 5, 87, 93, and 111 all measured below 500 ppm after the second remonitoring.

On March 20, 2006, instantaneous monitoring of Grids 6, 107, 111, and 114 detected concentrations of ranging from 1,000 to 5,000 ppm TOC as methane. Each of these grids

was repaired on March 20, 2006 and 10-day re-monitoring was performed on Grids 6, 107, 111, and 114, on March 29, 2006. Re-monitored concentrations for Grids 6, 107, and 114 measured below 500 ppm. Additional re-monitoring was required and performed on April 7, 2006 for Grid 111. TOC concentration in Grid 111 measured below 500 ppm after this second re-monitoring.

Additional discussion pertaining to the grids is discussed in Section 4.2.

1.3.4 Landfill Gas Chemical Analysis §1150.1(e)(4)

LFG samples were collected from each of the three LFG flaring systems on February 21, 2006 and were analyzed for fixed gases, TGNMOs, toxic air contaminants, and hydrogen sulfide. Results are discussed in Section 5.2 and provided in Appendix D.

1.3.5 Ambient Air Monitoring (24-hour) §1150.1(e)(5)

Four ambient air samplers were used to collect upwind (south) and downwind (north) samples on March 5 and 6, 2006. Two ambient air samplers were positioned upwind at the landfill property boundary and two downwind at the landfill property boundary (Figure 1). Low concentrations of benzene, carbon tetrachloride, toluene, xylenes, methane, and TGNMOs were detected in all four air samples, and a low concentration of dichloromethane was detected in each of the four air samples (AA-1 through AA-4). The results are discussed in Section 6.2, and field and laboratory data from ambient air monitoring are included in Appendix E.

1.3.6 SCAQMD Rule 431.1 Sulfur Monitoring

Monitoring for total reduced sulfur compounds (TRS) was conducted in accordance with the tiered methodology described in the Alternative Monitoring Plan for SCAQMD Rule 431.1, Bradley Landfill, dated April 1, 2003 (A/N 267044). The table below presents the tiered approach, which includes monitoring with colorimetric tubes and the collection of a ten-liter bag sample in a Tedlar bag from each LFG flare and gas plant inlet location. The Bradley Landfill is currently designated with a Tier I Action level.

Action Level	AQMD Modified Tiers	Sampling Requirement
Tier I	TS < 100 ppm	-Quarterly using Method 307-91 -Monthly using TUBE
Tier II	100 ppm ≤ TS < 120 ppm	-Monthly using Method 307-91 -Weekly using TUBE
Tier III	120 ppm < TS < 130 ppm	-Weekly using Method 307-91 -Daily using TUBE

Action Level	AQMD Modified Tiers	Sampling Requirement
Tier IV	TS > 130 ppm	-Potential Rule 431.1 Violation -Inform AQMD immediately following R430 Breakdown Provisions -Daily using Method 307-91

Collected samples are analyzed within 24 hours in accordance with SCAQMD Method 307-91. A detailed discussion of the sulfur content is discussed in Section 5.2.

Monthly H₂S sampling with a colorimetric tube was conducted on January 31, February 27, and March 29, 2006. Quarterly H₂S sampling using Method 307-91 was conducted on February 21, 2006. Samples were collected in 10-liter tedlar bags and were sent to AtmAA, Inc. for testing as required by Rule 431.1. Sulfur monitoring results are summarized below. Analytical results are presented in Appendix D.

Table 1-1 Sulfur Monitoring Results				
Date	Compressor (Gas Sales)	Flare 1 H ₂ S concentration (ppmv)	Flare 2 H ₂ S concentration (ppmv)	Flare 3 H ₂ S concentration (ppmv)
Colorimetric Tube Results				
1/31/06	60	40	20	40
2/27/06	58	60	40	40
3/29/06	60	58	40	40
Laboratory Results				
2/21/06	20	47	35	20

1.3.7 Recent Landfill Activity

Landfill operations limited integrated and instantaneous surface emission monitoring in some areas of the landfill. Active filling areas where monitoring could not be conducted are shown on Figure 1. During the integrated surface emissions monitoring event on March 9, 2006, the active filling locations were Grids 94 and 97. Active filling locations during the instantaneous monitoring event in February 2006 were Grids 98, 102, 105, 109, 114, and 116. In March 2006, active filling locations were Grids 71, 79, 82, and 86.

2 SUBSURFACE PERIMETER PROBE MONITORING §1150.1(e)(1)

2.1 Subsurface Perimeter Probe Monitoring Protocol

Subsurface perimeter probe monitoring was performed in January, February, and March 2006. Monthly gas samples are collected from perimeter probes yielding the highest field-obtained TOC concentrations in percent by volume, measured as methane. Locations of the subsurface perimeter monitoring probes are shown on Figure 1, Surface Emissions Monitoring Site Plan.

Alternative monitoring procedures were used in the area of perimeter probe E-8D. These procedures include monitoring of the probes and performing surface emission monitoring of Grid 31-D, as specified in the Rule 1150.1 Compliance Plan for Bradley Landfill. The alternative procedures are implemented when TOC concentrations meet or exceed five (5) percent by volume, measured as methane.

Static pressure, in inches of water column, was measured prior to evacuating each probe. Probes were evacuated at a continuous rate until a stable methane concentration was observed. During the first quarter of 2006, a calibrated GEM-2000 Gas Extraction Monitor was used to measure methane by percent volume, methane by percent of LEL, oxygen by percent volume, carbon dioxide by percent volume, balance gas (nitrogen) by percent volume and static pressure in inches of water column.

2.2 Subsurface Perimeter Probe Monitoring Results

Perimeter probes with the highest field-obtained TOC concentrations, taken during the monthly monitoring event for each month, were selected to be sampled for laboratory analysis of TOC as methane. During the monthly probe monitoring events, field readings were taken on January 16, February 20, and March 20, 2006 for all probes. Methane was detected over 5 percent only in Probe E-8D during the January, February, and March monthly probe monitoring events at 61.3, 60.3, and 61.3 percent, respectively. Laboratory analysis of gas from Probe E-8D yields more consistent TOC as methane concentrations than readings taken with the GEM 2000. Tedlar bag samples from Probe E-8D collected on January 16, February 20, and March 20, 2006 contained concentrations of 51.2, 51.9, and 19.4 percent TOC as methane, respectively, as reported by the laboratory. Field and laboratory data for perimeter probe monitoring are provided in Appendix A.

Perimeter probes that were selected to be sampled for each month are listed below:

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Table 2-1 Perimeter Probe Sampling Results			
Month	Probe #	Field TOC as methane Concentration (%)	Lab TOC as Methane Concentration (%)
Jan-06	E-8D	61.3	51.2
Feb-06	E-8D	60.3	51.9
Mar-06	E-8D	61.3	19.4

3 INTEGRATED SURFACE EMISSION SAMPLING §1150.1(e)(2)

3.1 Integrated Surface Emission Sampling Protocol

The first quarter 2006 integrated surface emission monitoring and sampling was conducted on February 9 and March 9, 2006. Monitoring and sampling were conducted consistent with SCAQMD's Guidelines for Implementation of Rule 1150.1.

Prior to sampling, the landfill surface was divided into approximate 50,000 square-foot grids with the majority of the grids having dimensions 100 feet by 500 feet. Figure 3, Integrated Surface Grids Location Map, shows the location of each grid.

Integrated surface sampling (ISS) equipment, field protocol, and QA procedures used in this program were derived from the SCAQMD Guidelines for Implementation of Rule 1150.1, in accordance with the compliance plan for the landfill. RES Environmental, Inc. (RES) technicians sampled each grid using the walk pattern and collection rate specified in the guidelines. Each portable Integrated Sampler is comprised of a Tedlar bag, DC pump, and a calibrated flow controller. Each bag sampler is calibrated by a film (bubble meter) calibration method. Each Tedlar bag sample was purged three times with ultra-pure nitrogen before sampling and enclosed in a light-sealed box after sampling. Analyses were performed within 72 hours after sampling was conducted. Tedlar bag QA/QC checklist is in Appendix F.

Wind monitoring data recorded at the on-site wind station were reduced to calculate 10-minute average wind speeds for those times when sampling was performed. Each integrated grid sample was collected over a continuous 25-minute period.

RES technicians walked grids at approximate 25-foot intervals for a total of 2,600 linear feet in a period of 25 minutes. The integrated sampler wand was extended to no greater than one inch above the landfill surface. Integrated surface samples were collected at an approximate rate of 333 cubic centimeters per minute (cc/min). The technicians recorded the starting and ending time of each grid traverse, along with the average rotameter flow rate and the prevailing wind speed and direction. An OVA was used to measure the TOC concentration (in ppm, as methane) from each of the 10-liter bag samples collected from the pre-numbered grids.

The landfill sampling grids are divided into Types A, B, and C. All grid types are sampled quarterly. Type A surface grids have no exclusions from sampling, and sampling is conducted in accordance with Rule 1150.1. Type B surface grids contain steep slopes or steep slopes and dense vegetation. Sampling of Type B grids consists of sampling the toe and top of 128 and 130. Grids 121 and 122, each defined as a Type "B" Grid, have been re-designated as Type "A" Grids due to the additional refuse that has been put in place. Vacuum readings from all LFG extraction

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wells located within Type B grids are recorded monthly and included in the quarterly report. Type C grids are located in the area of active recycling operations. Sampling of Type C surface grids are performed quarterly, during the integrated sampling event. Sampling of Type C surface grids consists of sampling a course of 2,600 linear feet but not less than 1,900 linear feet in each grid for a continuous 25-minute period, excluding stockpiles, stored equipment and recycling equipment. Vacuum readings from all gas extraction wells located within Type C active recycling grids are recorded monthly and included in the quarterly report. Vacuum readings recorded in the first quarter from the extraction wells located in Type B and C Grids are presented in Table 3-3.

Tedlar bag samples from Grids 3 and 6 were sent to AtmAA, Inc. for further analysis of toxic air contaminants, methane, and TGNMOs. Technicians responsible for transporting the integrated samples recorded pertinent information on a chain-of custody form included in Appendix B, Integrated Surface Emission Sampling. Additional personnel, including lab technicians, also recorded their signatures on the chain-of-custody form.

Integrated surface samples were collected when the average wind speed was less than five miles per hour and the instantaneous wind speed was less than ten miles per hour. Integrated samples were not collected within 72 hours of a rainstorm. Wind speed and direction measurements are tracked on the chart included in Appendix B, Integrated Surface Emission Sampling. Other weather data taken during integrated monitoring can also be found in Appendix C.

3.2 Integrated Surface Monitoring Results

The TOC as methane concentration collected from each grid is listed in Table 3-1, Integrated Surface Sampling Field Summary. Field data sheets are presented in Appendix B. All of the integrated TOC as methane readings were within compliance limits, as set forth by SCAQMD Rule 1150.1. Typically, the two samples having the highest field TOC as methane concentrations are sent to the laboratory for further analysis. The TOC as methane background reading was 5.0 ppm. During surface emissions monitoring, TOC as methane concentrations above background were no more than 15 ppm. Samples from Grids 111 and 112 were selected for laboratory analysis.

3.3 Integrated Surface Sampling Laboratory Results

Integrated samples were collected from Grids 111 and 112 and were transported to AtmAA, Inc. on March 9, 2006 for further analysis. Table 3-2, Integrated Surface Sampling, Laboratory Summary, lists the laboratory analysis methods and results.

Laboratory analysis by Method TO-15 of the sample from Grid 111 (Lab No. 00696-1) detected benzene, carbon tetrachloride, toluene, and xylenes. The TGNMO concentration was 1.78 ppmv and the methane concentration was 16.5 ppmv.

Laboratory analysis by Method TO-15 of the sample from Grid 112 (Lab No. 00696-2) detected benzene, carbon tetrachloride, toluene, and xylenes. The TGNMO concentration was 2.03 ppmv and the methane concentration was 2.19 ppmv.

Table 3-1
Integrated Surface Sampling, Field Summary
Bradley Landfill and Recycling Center
Sun Valley, California

INSTRUMENT: OVA 128/88 DATE OF SAMPLING: February 9 and March 9, 2006
88-ISS Packs TECHNICIAN: RES Environmental Inc.

Grid I.D.	TOC CONCENTRATION ABOVE BACKGROUND LEVELS (ppmv)	Sample Date	ACTION TAKEN TO REPAIR LEAK	DATE OF REPAIR	DATE OF ANY REQUIRED RE- MONITORING	RE-MONITORED CONCENTRATION (ppmv)
1	0	3/9/2006	N/A			
2	1	3/9/2006	N/A			
3	3	3/9/2006	N/A			
4	3	3/9/2006	N/A			
5	0	3/9/2006	N/A			
6	0	3/9/2006	N/A			
7	0	3/9/2006	N/A			
8	3	3/9/2006	N/A			
9	0	3/9/2006	N/A			
10	1	3/9/2006	N/A			
20	0	2/9/2006	N/A			
21	0	2/9/2006	N/A			
22	0	2/9/2006	N/A			
23	0	2/9/2006	N/A			
24	1	3/9/2006	N/A			
31	1	3/9/2006	N/A			
32	0	3/9/2006	N/A			
33	3	3/9/2006	N/A			
34	0	2/9/2006	N/A			
35	1	2/9/2006	N/A			
36	2	2/9/2006	N/A			
37	1	2/9/2006	N/A			
38	0	2/9/2006	N/A			
39	0	2/9/2006	N/A			
40	3	3/9/2006	N/A			
41	0	3/9/2006	N/A			
42	0	3/9/2006	N/A			
43	0	2/9/2006	N/A			
44	0	2/9/2006	N/A			
45	0	2/9/2006	N/A			
46	0	2/9/2006	N/A			
47	1	2/9/2006	N/A			
48	0	2/9/2006	N/A			
49	3	2/9/2006	N/A			
50	0	2/9/2006	N/A			
51	0	2/9/2006	N/A			
52	0	2/9/2006	N/A			
53	0	2/9/2006	N/A			
54	0	2/9/2006	N/A			
55	0	2/9/2006	N/A			
56	0	3/9/2006	N/A			
57	0	2/9/2006	N/A			
58	3	2/9/2006	N/A			
59	0	2/9/2006	N/A			
60	0	2/9/2006	N/A			
61	0	3/9/2006	N/A			
62	0	2/9/2006	N/A			
63	0	2/9/2006	N/A			
64	0	2/9/2006	N/A			
65	3	2/9/2006	N/A			
66	0	3/9/2006	N/A			
67	0	2/9/2006	N/A			
68	0	2/9/2006	N/A			
69	0	3/9/2006	N/A			
70	1	3/9/2006	N/A			

Table 3-1
Integrated Surface Sampling, Field Summary
Bradley Landfill and Recycling Center
Sun Valley, California

INSTRUMENT: OVA 128/88 DATE OF SAMPLING: February 9 and March 9, 2006
88-ISS Packs TECHNICIAN: RES Environmental Inc.

Grid I.D.	TOC CONCENTRATION ABOVE BACKGROUND LEVELS (ppmv)	Sample Date	ACTION TAKEN TO REPAIR LEAK	DATE OF REPAIR	DATE OF ANY REQUIRED RE- MONITORING	RE-MONITORED CONCENTRATION (ppmv)
71	0	2/9/2006	N/A			
72	1	2/9/2006	N/A			
73	0	3/9/2006	N/A			
74	0	2/9/2006	N/A			
75	0	3/9/2006	N/A			
76	0	3/9/2006	N/A			
77	0	3/9/2006	N/A			
78	0	3/9/2006	N/A			
79	0	2/9/2006	N/A			
80	0	2/9/2006	N/A			
81	0	3/9/2006	N/A			
82	0	2/9/2006	N/A			
83	0	2/9/2006	N/A			
84	0	3/9/2006	N/A			
85	0	3/9/2006	N/A			
86	0	2/9/2006	N/A			
87	1	2/9/2006	N/A			
88	0	2/9/2006	N/A			
89	0	2/9/2006	N/A			
90	0	3/9/2006	N/A			
91	0	2/9/2006	N/A			
92	0	2/9/2006	N/A			
93	1	3/9/2006	N/A			
95	0	3/9/2006	N/A			
96	0	3/9/2006	N/A			
98	0	3/9/2006	N/A			
99	0	3/9/2006	N/A			
100	0	2/9/2006	N/A			
101	0	3/9/2006	N/A			
102	3	3/9/2006	N/A			
103	0	3/9/2006	N/A			
104	0	3/9/2006	N/A			
105	3	3/9/2006	N/A			
106	0	3/9/2006	N/A			
107	0	3/9/2006	N/A			
108	0	3/9/2006	N/A			
109	0	3/9/2006	N/A			
110	0	3/9/2006	N/A			
111	15	3/9/2006	N/A			
112	0	3/9/2006	N/A			
113	0	3/9/2006	N/A			
114	0	3/9/2006	N/A			
115	0	3/9/2006	N/A			
116	0	3/9/2006	N/A			
117	0	3/9/2006	N/A			
118	0	3/9/2006	N/A			
119	0	3/9/2006	N/A			
120	0	3/9/2006	N/A			
121	0	3/9/2006	N/A			
122	0	3/9/2006	N/A			
123	0	3/9/2006	N/A			
124	0	3/9/2006	N/A			
125	0	3/9/2006	N/A			
126	0	3/9/2006	N/A			
127	0	3/9/2006	N/A			

Table 3-1
Integrated Surface Sampling, Field Summary
Bradley Landfill and Recycling Center
Sun Valley, California

INSTRUMENT: OVA 128/88 DATE OF SAMPLING: February 9 and March 9, 2006
88-ISS Packs TECHNICIAN: RES Environmental Inc.

Grid I.D.	TOC CONCENTRATION ABOVE BACKGROUND LEVELS (ppmv)	Sample Date	ACTION TAKEN TO REPAIR LEAK	DATE OF REPAIR	DATE OF ANY REQUIRED RE- MONITORING	RE-MONITORED CONCENTRATION (ppmv)
128	0	2/9/2006	N/A			
129	0	2/9/2006	N/A			
130	0	2/9/2006	N/A			
131	0	3/9/2006	N/A			
132	0	3/9/2006	N/A			
Active Areas						
94						
97						
Greenwaste Areas						
11						
12						
13						
14						
15						
16						
17						
18						
19						
25						
26						
27						
28						
29						
30						

A background level of 5 ppm was used.

Table 3-2
Integrated Surface Sampling Laboratory Summary
Bradley Landfill & Recycling Center (BLRC)
February 9 and March 9, 2006

SCAQMD Rule 1150.1 Components Analysis in Integrated Surface Tedlar Bag Samples			
Compound	Sample ISS Grid 111 Results (ppbV)	Sample ISS Grid 112 Results (ppbV)	Reporting Limit (ppbV)
Hydrogen Sulfide	<50	<50	50
Benzene	0.32	0.41	0.1
Benzyl Chloride	<0.4	<0.4	0.4
Carbon Tetrachloride	0.10	0.10	0.1
Chlorobenzene	<0.2	<0.2	0.2
Chloroform	<0.1	<0.1	0.1
1,1-Dichloroethane	<0.2	<0.2	0.2
1,1-Dichloroethylene	<0.2	<0.2	0.2
1,2-Dibromoethane	<0.2	<0.2	0.2
Dichlorobenzenes ⁽¹⁾	<1.1	<1.1	1.1
Dichloromethane	<0.2	<0.2	0.2
1,2-Dichloroethane	<0.2	<0.2	0.2
1,1,1-Trichloroethane	<0.1	<0.1	0.1
Trichloroethene	<0.1	<0.1	0.1
Perchloroethene	<0.1	<0.1	0.1
Toluene	1.55	2.73	0.3
Total Xylenes*	0.84	1.45	0.1
Vinyl Chloride	<0.2	<0.2	0.2
SCAQMD Rule 1150.1 Components Analysis in Integrated Surface Tedlar Bag Samples			
Compound	Sample ISS Grid 111 Results (ppmV)	Sample ISS 112 Results (ppmV)	Reporting Limit (ppmV)
Methane	16.5	2.19	1
Total Non-Methane Organics (as methane)	1.78	2.03	1
<p>< Not detected at or above the method detection limit.</p> <p>*Total xylenes reported includes the sum of the detected concentrations of m-& p-xylenes and o-xylenes.</p> <p>(1) total amount containing meta, para, and ortho isomers</p>			

TABLE 3-3
LFG Well Data for "C" Monitoring Grids
First Quarter 2006
Bradley Landfill, Sun Valley, California

Device ID	Date/Time	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	Balance	Current Static Pressure	Adjusted Static Pressure	Current Differential Pressure	Current Temp	Current Flow	Adjusted Flow	Status	Grid Type
BR000001	1/6/2006 13:20	41.7	34	0.1	24.2	-5	-5.2	10.408	136	112	114	1/4 open	C
BR000001	2/2/2006 14:38	30.8	31.5	0.3	37.4	-7.4	-7	10.481	138	111	114	Min flow	C
BR000001	3/3/2006 13:42	31.5	30.5	0.1	37.9	-7	-7.1	11.786	130	118	121	1/4 open	C
BR000002	1/6/2006 12:59	32.2	32.1	0.2	35.5	-1.1	-1.1	0.02	120	3	2	Min flow	C
BR000002	2/2/2006 14:12	32.2	31.3	0.1	36.4	-1.3	-1.6	0.494	120	15	8	Min flow	C
BR000002	3/3/2006 14:00	29.1	31	0	39.9	-2	-1.9	0.241	122	10	5	Min flow	C
BR000003	1/6/2006 11:04	3.5	9.6	9.1	77.8	-4.5	-4.5	0.736	14	19	16	Min flow	C
BR000003	2/3/2006 10:36	4	10.4	9	76.6	-4.7	-4.7	0.804	14	20	17	1/4 Open	C
BR000003	3/3/2006 14:10	2.5	11.3	7.6	78.6	-4.5	-4.6	1.904	125	30	21	Min flow	C
BR000004	1/6/2006 10:44	8.5	15.5	0.9	75.1	-15.7	-16	4.818	161	47	47	1/2 open	C
BR000004	2/28/2006 11:31	6.6	14.2	1.2	78	-18.3	-18.4	3.604	127	39	39	No chgs made	C
BR000004	3/6/2006 11:20	7.8	14.7	1.1	76.4	-18.9	-16.8	4.676	126	46	41	1/4 open	C
BR000005	1/6/2006 10:21	2.5	11.2	5.7	80.6	-7	-7	0.279	150	18	18	Min flow	C
BR000005	2/21/2006 15:14	3.1	11.4	6.5	79	-7	-7	0.401	153	21	22	Min flow	C
BR000005	3/29/2006 10:14	0.4	12.9	1	85.7	-10.6	-10.3	0.79	121	30	29		C
BR000006	1/6/2006 10:14	13.8	23.6	1.1	61.5	-3.1	-3.3	3.536	163	41	42	Min flow	C
BR000006	2/21/2006 15:09	15.1	24.6	1.1	59.2	-2.8	-3.4	3.086	165	38	40	Min flow	C
BR000006	3/6/2006 11:35	16	24.2	1.4	58.4	-2.7	-3.2	0.753	136	18	33	Min flow	C
BR000007	1/6/2006 10:01	19.2	25.9	0.6	54.3	-1	-0.8	0.19	158	9	4	Min flow	C
BR000007	2/21/2006 15:04	21.8	28.1	0.3	49.8	-0.9	-0.9	0.114	156	7	7	Min flow	C
BR000007	3/6/2006 11:41	19.6	26.1	0.6	53.7	-0.8	-0.7	0.239	129	10	11	Min flow	C
BR000008												Disconnected	C
BR000008												Disconnected	C
BR000008	3/6/2006 11:45	0.1	1.1	18.3	80.5	0	0	-0.832	59			Disconnected	C
BR000009												Disconnected	C
BR000009	2/21/2006 10:42	51.7	43.2	0	5.1	-1.1	-1.2	0.323	72	4	4	1/4 Open	C
BR000009	3/10/2006 12:42	44.1	39	0.1	16.8	-2.9	-2.6	1.973	114	10	8	Min flow	C
BR000010	1/13/2006 16:57	46.3	39.2	0.4	14.1	38.5	38.7	31.841	0	84	92	1/4 open	C
BR000010	2/21/2006 10:06	46.7	39.9	0	13.4	-14.2	-14	1.525	126	15	15	1/4 Open	C
BR000010	3/6/2006 13:32	43.2	37.7	0.2	18.9	-16.1	-15.9	1.228	127	14	14	1/2 open	C
BR000011	1/18/2006 10:23	43.6	36.8	0	19.6	-16.2	-16.2	0.729	172	26	26	1/4 open	C
BR000011	2/21/2006 10:11	47.2	38.8	0	14	-15.3	-15.3	0.628	168	23	24	1/4 Open	C
BR000011	3/6/2006 13:28	45.5	36.7	0.2	17.6	-17.6	-17.6	5.433	143	67	43	1/4 open	C

TABLE 3-3
LFG Well Data for "C" Monitoring Grids
First Quarter 2006
Bradley Landfill, Sun Valley, California

Device ID	Date/Time	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	Balance	Current Static Pressure	Adjusted Static Pressure	Current Differential Pressure	Current Temp	Current Flow	Adjusted Flow	Status	Grid Type
BR000014	1/6/2006 11:09	30	29.1	0.1	40.8	-0.9	-0.9	1.105	128	22	22	1/4 open	C
BR000014	2/3/2006 10:46	29.9	29.8	0.1	40.2	-1.5	-1.5	2.097	128	31	31	Min flow	C
BR000014	3/3/2006 14:16	28.5	29.6	0.1	41.8	-1.6	-1.6	2.403	128	33	33	Min flow	C
BR000015	1/6/2006 10:56	11.9	17.6	0.4	70.1	-20	-20.1	0.226	172	17	16	1/2 open	C
BR000015	2/21/2006 15:29	9.5	18	0.3	72.2	-18	-18.1	0.432	169	26	24	1/2 Open	C
BR000015	3/6/2006 11:15	11.4	17.7	0.5	70.4	-23	-22.8	0.128	137	12	11	1/4 open	C
BR000016	1/6/2006 11:18	46	41.1	0.1	12.8	0.2	0.3	0.015	91	1	1	Full open	C
BR000016	2/21/2006 14:28	54.7	41.2	0	4.1	0.1	0.1	0.063	79	3	3	1/4 Open	C
BR000016	3/3/2006 10:33	15.5	12.4	16.3	55.8	-0.3	-0.2	-1.101	53		3	Min flow	C
BR000017	1/6/2006 10:35	23.1	27.8	0.1	49	-2.3	-2.3	0.481	117	8	8	Min flow	C
BR000017	2/21/2006 14:44	21.3	27.4	0.1	51.2	-3.5	-3.5	1.066	117	13	13	Min flow	C
BR000017	3/3/2006 10:49	23.1	27.8	0.3	48.8	-3.3	-3.2	0.39	105	8	9	Min flow	C
BR000018	1/6/2006 10:28	12	18.9	0.7	68.4	-23	-22.7	0.093	130	10	11	1/2 open	C
BR000018	2/21/2006 15:19	9.2	17.3	0.7	72.8	-19.1	-19.2	0.012	139	3	8	1/2 Open	C
BR000018	3/6/2006 11:25	10.2	17.2	0.9	71.7	-21.3	-21.2	0.576	120	26	21	1/4 open	C
BR000019	1/6/2006 11:52	57.1	41.9	0.1	0.9	0.8	0.8	0.098	98	6	7	Full open	C
BR000019	2/21/2006 14:21	56.6	43.3	0	0.1	0.1	0.1	0.055	68	5	5	1/2 Open	C
BR000019	3/3/2006 9:04	57.2	42.6	0.1	0.1	-0.5	-0.5	0.021	54	3	3	Full open	C
BR000020	1/6/2006 11:26	57	42.4	0.1	0.5	0.1	0.1	0.155	76	8	9	1/4 open	C
BR000020	2/21/2006 14:12	56.4	43.5	0	0.1	0.1	0.1	0.066	86	5	5	1/4 Open	C
BR000020	3/3/2006 10:27	56.8	42.8	0.2	0.2	0	-0.8	0.003	57	1	8	1/4 open	C
BR000021	1/6/2006 11:34	56.3	41.3	0.1	2.3	0	0	0.162	78	9	8	Min flow	C
BR000021	2/21/2006 14:06	56.1	41.6	0	2.3	0.1	0.1	0.054	65	5	5	1/4 Open	C
BR000021	3/3/2006 10:43	55.2	40.6	0.2	4	-0.9	-0.8	0.043	51	4		1/2 open	C
BR000022	1/6/2006 10:06	26	24.6	6.1	43.3	0	0	0.141	90	0	0	Min flow	C
BR000022	2/21/2006 14:49	44.7	38.4	1.9	15	0.1	0.1	0.084	75	0	0	Min flow	C
BR000022	3/3/2006 11:11	12	10.5	15.5	62	-0.1	-0.1	0.146	48	0	0	Min flow	C
BR000025	1/6/2006 9:33	56	41.9	0	2.1	-11.8	-11.7	2.121	125	50	52	Full open	C
BR000025	2/8/2006 9:30	57.2	42.7	0	0.1	-10	-10	1.819	126	47	47	Full Open	C
BR000025	3/6/2006 13:53	57.2	42.2	0.5	0.1	-11.3	-11.1	1.759	108	48	46	Full open	C
BR000026	1/6/2006 13:53	54.3	40.9	0.1	4.7	-14.7	-15	0.275	138	3	4	Full open	C
BR000026	2/28/2006 13:31	56.2	40.6	0.1	3.1	-11.2	-12.1	2.669	118	11	11	valves adj. down	C
BR000026	3/3/2006 11:17	55.7	41.3	0.3	2.7	-14.3	-15.1	0.265	118	3	3	1/2 open	C

TABLE 3-3
LFG Well Data for "C" Monitoring Grids
First Quarter 2006
Bradley Landfill, Sun Valley, California

Device ID	Date/Time	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	Balance	Current Static Pressure	Adjusted Static Pressure	Current Differential Pressure	Current Temp	Current Flow	Adjusted Flow	Status	Grid Type
BR000027	1/18/2006 10:15	45.6	35.7	0	18.7	-10.5	-10.6	3.648	131	41	43	1/2 open	C
BR000027	2/21/2006 11:01	45.5	36	0.2	18.3	-8.3	-8.6	2.718	130	35	40	1/2 Open	C
BR000027	3/3/2006 9:39	46.3	36.4	0.2	17.1	-10.7	-10.6	2.446	130	33	48	1/2 open	C
BR000028	1/6/2006 14:06	52.6	37.9	0.2	9.3	-0.7	-0.7	-0.588	0	0	0	1/4 open	C
BR000028												Disconnected	C
BR000028	3/29/2006 10:27	0.2	0.2	20.5	79.1	-1.2	-1.2	6.447	0	0	0	Disconnected	C
BR000031	1/18/2006 10:31	2	19.6	0	78.4	-1.1	-1.1	0.632	115	16	16	Min flow	C
BR000031	2/8/2006 10:11	2.2	19.3	0.5	78	-0.5	-0.5	0.036	119	4	5	Min flow	C
BR000031	3/7/2006 8:22	1.3	18.9	0.6	79.2	-0.7	-0.7	0.339	103	12	12	Min flow	C
BR000033	1/18/2006 10:38	20.9	28.1	0.2	50.8	-4.6	-4.6	9.543	144	65	65	1/2 open	C
BR000033	2/28/2006 10:24	21.5	27.7	0.1	50.7	-4.5	-4.4	11.669	112	72	72	No chgs made	C
BR000033	3/7/2006 8:17	22.3	27.7	0.3	49.7	-4.7	-4.7	2.643	126	35	41	1/2 open	C
BR000034	1/18/2006 10:53	8.1	21.7	0.3	69.9	-4.6	-4.5	9.485	183	82	85	1/2 open	C
BR000034	2/28/2006 10:06	7.8	21.4	0.6	70.2	-4.5	-4.5	11.213	110	70	70	valves adj. down	C
BR000034	3/6/2006 9:55	8.1	21.4	0.7	69.8	-3.6	-3.7	5.975	128	51	37	1/4 open	C
BR000036	1/18/2006 10:47	4.5	19.3	1.4	74.8	-4.1	-4.2	11.013	179	81	81	1/2 open	C
BR000036	2/28/2006 10:18	3.9	18.3	1.3	76.5	-4	-3.9	13.248	96	76	77	valves adj. down	C
BR000036	3/29/2006 10:55	3.1	17.7	1.6	77.6	-3.1	-3	10.039	14	66	70		C
BR000039	1/18/2006 11:02	10.6	24	0.8	64.6	-1.7	-1.8	2.141	122	30	30	Min flow	C
BR000039	2/8/2006 8:28	10.3	23.2	1.3	65.2	-1.1	-1.1	2.298	122	31	31	Min flow	C
BR000039	3/29/2006 10:37	5.4	19.8	1.2	73.6	-2.7	-2.5	6.657	124	59	51	Disconnected	C
BR000084	1/6/2006 13:06	54.4	40.9	0.2	4.5	-9.5	-10	16.849	158	90	90	1/2 open	C
BR000084	2/28/2006 11:14	54.7	40.5	0	4.8	-10.6	-10.8	16.874	121	89	89	No chgs made	C
BR000084	3/3/2006 13:53	54.3	41.4	0	4.3	-9.7	-10.2	2.701	131	35	28	1/2 open	C
BR00023D	1/6/2006 11:40	57.3	41.6	0.1	1	0.2	0.2	0.174	99	9	8	1/4 open	C
BR00023D	2/21/2006 13:54	58	41.9	0	0.1	0.1	0.1	0.058	74	5	5	1/4 Open	C
BR00023D	3/3/2006 9:13	56.5	40.1	0.6	2.8	-0.5	-0.5	0.016	55	2	3	1/2 open	C
BR00023S	1/6/2006 11:45	58	41.8	0.1	0.1	0.7	0.7	0.134	102	4	4	Full open	C
BR00023S	2/21/2006 13:59	57.7	42.2	0	0.1	0.3	0.3	0.042	82	2	3	1/2 Open	C
BR00023S	3/3/2006 9:18	57.6	42.1	0.2	0.1	-0.5	-0.5	0.037	62	2	2	1/2 open	C
BR00105D	1/6/2006 13:41	57.8	41.8	0.2	0.2	0.4	0.5	0.138	100	13	13	1/2 open	C
BR00105D	2/21/2006 13:30	57.2	42.7	0	0.1	0.2	0.2	0.032	74	6	5	1/2 Open	C
BR00105D	3/3/2006 9:24	51.8	38.7	1.4	8.1	-0.5	-0.6	0.005	56	2	10	1/2 open	C

TABLE 3-3
LFG Well Data for "C" Monitoring Grids
First Quarter 2006
Bradley Landfill, Sun Valley, California

Device ID	Date/Time	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	Balance	Current Static Pressure	Adjusted Static Pressure	Current Differential Pressure	Current Temp	Current Flow	Adjusted Flow	Status	Grid Type
BR00105S	1/6/2006 13:46	58.2	41.5	0.1	0.2	0	0	0.118	104	12	11	1/4 open	C
BR00105S	2/21/2006 13:34	54.5	45.3	0	0.2	0.1	0.1	0.029	71	6	4	1/4 Open	C
BR00105S	3/3/2006 9:27	52.7	39.6	1.3	6.4	-0.6	-0.6	-0.001	55		2	1/4 open	C
BR00106D	1/18/2006 14:16	50.5	35.6	3.3	10.6	-2.5	-2.5	1.264	113	14	14	Min flow	C
BR00106D	2/21/2006 10:27	46.2	35.5	3.2	15.1	-5.6	-5.6	4.8	124	28	28	Min flow	C
BR00106D	3/6/2006 13:43	42.4	32.6	4.8	20.2	-7.3	-7.3	4.576	113	27	27	1/4 open	C
BR00106S	1/18/2006 14:20	49.1	35.1	2.3	13.5	-4	-3.9	11.178	122	44	44	1/4 open	C
BR00106S	2/28/2006 11:03	51.2	38.9	0.3	9.6	-6	-6.1	11.624	118	44	44	No chgs made	C
BR00106S	3/6/2006 13:47	49.9	39.2	0.2	10.7	-5.7	-5.8	9.686	124	40	40	1/4 open	C

4 INSTANTANEOUS SURFACE EMISSION MONITORING §1150.1(e)(3)

4.1 Instantaneous Surface Emission Monitoring Protocol

Quarterly instantaneous surface emission monitoring was conducted in January, February, and March 2006 by RES Inc. technicians and consisted of monitoring the landfill surface for the presence of LFG surface emissions. Instantaneous Surface Monitoring (ISM) was performed using procedures and equipment described in the SCAQMD Guidelines for Implementation of Rule 1150.1 and was consistent with the compliance plan for the Landfill.

A portable flame ionization detector (FID), which meets or exceeds all guideline specifications was used to obtain instantaneous measurements of TOC as methane concentrations immediately above the surface of the grids. Calibrations were performed on the OVA equipment using factory specifications. While traversing the disposal area, the detector probe was held within 0 to 3 inches above the landfill surface to obtain the readings. A surface inspection was also performed during monitoring to identify potential cracks in the landfill cover.

Using the OVA, RES technicians walked a pattern across the landfill surface consisting of linear traverses approximately 100 feet apart at an approximate rate of 100 to 110 feet per minute. TOC as methane measurements were recorded at approximately every 100 linear feet. While monitoring, the OVA wand and funnel assembly was held no further than 0 to 3 inches above the landfill surface.

In addition to walking the traverses, the OVA was used by Shaw personnel to measure TOC as methane concentrations at landfill surface fissures, along the refuse/natural soil interface, and at corrugated metal pipes, gas extraction wells and other points visually identified as areas potentially having repeatable TOC as methane concentrations greater than 500 ppm.

The landfill sampling grids are divided into Types A, B, and C. Type A surface grids have no exclusions from sampling and sampling is conducted in accordance with Rule 1150.1. Type B surface grids contain steep slopes or steep slopes and dense vegetation. Sampling of Type B grids consists of sampling the toe and top of Grids 128 and 130. Vacuum readings from gas extraction well 39, located within a Type B grid, is recorded monthly and included in the quarterly report. Twenty-two Type C grids are located in the area of active recycling operations. Sampling of Type C surface grids consists of sampling a course of 2,600 linear feet but not less than 1,900 linear feet in each grid for a continuous 25-minute period, excluding stockpiles, stored equipment and recycling equipment. Vacuum readings from all LFG extraction wells located within Type C active recycling grids are recorded monthly and included in the quarterly report.

Vacuum readings recorded in the first quarter from the extraction wells located within Type B and C grids are presented in Table 3-3.

Areas that were not monitored due to active landfill operations are shown on Figure 1.

Wind speed and direction were measured using a Climatronics portable meteorological station mounted on the roof of the main office building at the landfill described in Section 7, Field Instrumentation and Equipment Specifications. Measurements were recorded on a continuous strip chart recorder. The wind speed and direction monitor was erected in the central portion of the site away from canyon walls and obstructions at an approximate elevation of 1,300 feet above mean sea level.

4.2 Instantaneous Surface Emission Monitoring Results

Monitoring measurements obtained during the month of January exceeded 500 ppm as methane in Grids 2, 56, 64, 71, 84, 85, 90, 93, 96, 103, 106, 110, 111 and 112. Monitoring measurements in February exceeded 500 ppm as methane in Grids 1, 2, 3, 5, 33, 78, 85, 87, 89, 93, 107, 111 and 112. Monitoring measurements in March exceeded 500 ppm as methane in Grids 6, 107, 111 and 114. Grids with surface emissions exceeding 500 ppm are shown in Table 4-1. All other grids were below 500 ppm TOC as methane.

Recorded concentrations of TOC as methane in the grids ranged from 0 to 100,000 ppm above background. In accordance with SCAQMD Rule 1150.1 regarding detecting TOC as methane concentrations exceeding 500 ppmv, each of these grids were re-sampled within 10 calendar days of the original detection. Re-monitored grids with TOC concentrations still exceeding 500 ppm were re-monitored for a second time in accordance with Rule 1150.1. Re-monitored concentrations in these grids all measured below 500 ppmv. Remonitoring results are shown in Table 4-1. Figures 1, 2, and 3 show grids where surface emissions exceeded 500 ppm TOC as methane during instantaneous monitoring. During the period of instantaneous monitoring, the wind speed average was below 5 miles per hour and the instantaneous wind speed was below 10 miles per hour.

Table 4-1
Instantaneous Emission Monitoring Results
Bradley Landfill & Recycling Center, Sun Valley, CA

INSTRUMENT: OVA 128/88

SAMPLING PERIOD: 1ST QUARTER 2006
 TECHNICIAN: RES AND SHAW

LOCATION OF LEAK	LEAK CONCENTRATION (ppmv)	DATE OF DISCOVERY	ACTION TAKEN TO REPAIR LEAK	DATE OF REPAIR	DATE OF ANY REQUIRED RE-MONITORING	RE-MONITORED CONCENTRATION (ppmv)
2	1,000	1/16/06	Repaired Well 46 and repaired surface slope	1/16/06	1/20/2006	5 - 40
56	5,000	1/16/06	Repaired Well 56	1/16/06	1/20/2006	5 - 40
64	2,000	1/16/06	Repaired Sump B	1/16/06	1/20/2006	20 - 40
71	5,000	1/16/06	Repaired Well EW55	1/16/06	1/20/2006	40 - 80
84	1,000	1/18/06	Repaired Well EW90.	1/18/06	1/24/2006	400 - 700
84	400 - 700	1/24/06	Repaired Sump C	1/24/06	1/25/2006	50 - 100
85	1,000	1/18/06	Repaired Well 54D and repaired surface slope	1/18/06	1/25/2006	5 - 40
90	1,000	1/18/06	Repaired Well EW89DR	1/18/06	1/25/2006	5 - 10
93	5,000	1/16/06	Repaired Well 205	1/16/06	1/20/2006	5 - 60
96	1,000	1/18/06	Repaired Well EW59	1/18/06	1/25/2006	20 - 50
103	1,000	1/18/06	Repaired Well P32	1/18/06	1/25/2006	5 - 10
106	1,000	1/18/06	Repaired Well 179	1/18/06	1/25/2006	5 - 10
110	1,000	1/18/06	Repaired Well EW87	1/18/06	1/24/2006	20 - 50
111	100,000	1/16/06	Repaired surface slope	1/16/06	1/20/2006	5 - 80
112	100,000	1/16/06	Repaired surface slope	1/16/06	1/20/2006	800 - 1,000
112	800 - 1,000	1/20/06	Repaired surface slope	1/20/06	1/25/2006	100 - 200
1	100,000	2/8/06	Repaired surface slope	2/8/06	2/16/2006	66
2	100,000	2/8/06	Repaired surface slope and repaired Well 44	2/8/06	2/16/2006	22
3	10,000	2/8/06	Repaired surface slope	2/8/06	2/16/2006	10 - 20
5	5,000	2/8/2006	Repaired Well 87 and repaired surface slope	2/8/06	2/16/2006	737
5	737	2/16/2006	Repaired surface slope	2/16/06	2/24/2006	30 - 40
33	1,000	2/8/06	Repaired surface slope	2/8/06	2/17/2006	0
78	1,000	2/8/06	Repaired Well 135	2/8/06	2/16/2006	40 - 60
85	100,000	2/8/06	Repaired Well EW54	2/8/06	2/16/2006	4
87	2,000	2/8/06	Repaired Well EW57	2/8/06	2/16/2006	3,211
87	3,211	2/16/06	Repaired Well EW57	2/8/06	2/24/2006	332
89	5,000	2/8/06	Repaired Well EW63	2/8/06	2/17/2006	0
93	1,000	2/8/06	Repaired Well 109	2/8/06	2/17/2006	1,200
93	1,200	2/17/06	Repaired surface slope	2/17/06	2/22/2006	5 - 10
107	2,000	2/8/06	Repaired Well 206	2/8/06	2/17/2006	0
111	100,000	2/8/06	Repaired lower slope and surface slope next to road and HD-E	2/8/06	2/16/2006	3,462
111	3,462	2/16/06	Repaired surface slope	2/16/06	2/22/2006	20 - 30
112	50,000	2/8/06	Repaired lower slope and surface slope next to road and HD-B	2/8/06	2/16/2006	20 - 40
6	2,000	3/20/06	Repaired upper part of slope and area of flags	3/20/06	3/29/2006	5 - 40
107	1,000	3/20/06	Repaired upper part of slope and area of flags	3/20/06	3/29/2006	40 - 80
111	1,000	3/20/06	Repaired area next to road	3/20/06	3/29/2006	1,000
111	1,000	3/29/06	Repaired surface slope	3/29/06	4/7/2006	312
114	5,000	3/20/06	Repaired Well EW79	3/20/06	3/29/2006	5 - 20

COMMENTS: Any component leak that meets or exceeds the 500 ppmv Methane limit must be repaired within 10 days.

5 LANDFILL GAS SAMPLING §1150.1(e)(4)

5.1 Landfill Gas Characterization Protocol

Quarterly LFG samples were collected from the gas compressor and the three (3) LFG flares on February 21, 2006. A portable pump was used to draw the LFG sample into a 10-liter Tedlar Bag enclosed in a light sealed box. The LFG sample was collected over a continuous ten-minute period.

5.2 Landfill Gas Sample Laboratory Results

Samples BL-001 (Gas Plant), BL-003 (Flare #1), BL-004 (Flare #2), and BL-002 (Flare #3), were taken to AtmAA, Inc. on February 21, 2006. The gas samples were analyzed for toxic air contaminants, TGNMOs, fixed gases, and hydrogen sulfide. Table 5-2, Landfill Gas Sample Laboratory Summary, gives the laboratory methods and results for these constituents. Appendix D, Landfill Gas Sampling includes the laboratory report prepared by AtmAA, Inc.

Samples BL-002, BL-003, BL-004, and BL-005, contained detectable concentrations of one or more of the following compounds: benzene, chlorobenzene, dichlorobenzenes, 1,1-dichloroethane, 1,2-dichloroethane, 1,1-dichloroethylene, dichloromethane, perchloroethylene, toluene, trichloroethene, vinyl chloride, and total xylenes. Laboratory results for samples collected from the gas plant and each flare are presented in Appendix D.

5.3 SCAQMD Rule 431.1 Sulfur Monitoring

Laboratory landfill gas results for quarterly samples taken from the gas compressor and the 3 flares are summarized in Tables 5-1 through 5-3. Analytical results are located in Appendix D.

Table 5-1 - Landfill Gas Summary of Results				
Components	Gas Compressor (BL-001)	Flare 1 (BL-003)	Flare 2 (BL-004)	Flare 3 (BL-002)
TGNMO (ppmv)	8,720	7,890	2,680	5,300
Hydrogen Sulfide (ppmv)	19.9	46.6	34.9	19.7
Methane (%)	43.2	42.7	24.2	31.3

Table 5-2
Landfill Gas Sample - Laboratory Summary
 Bradley Landfill & Recycling Center (BLRC)
 February 21, 2006

SCAQMD Rule 1150.1 Components Analysis in Integrated Surface Tedlar Bag Samples					
Compound	Gas Plant BL-001 (ppbV)	Flare #1 BL-003 (ppbV)	Flare #2 BL-004 (ppbV)	Flare #3 BL-002 (ppbV)	Reporting Limit (ppbV)
Benzene	3,010	4,210	1,930	11,600	20
Benzyl Chloride	<40	<40	<40	<40	40
Carbon Tetrachloride	<30	<30	<30	<30	30
Chlorobenzene	184	199	234	282	30
Chloroform	<20	<20	<20	<20	20
1,1-Dichloroethane	181	176	52.2	100	20
1,1-Dichloroethylene	72.4	68.5	<40	40.7	40
Dichloromethane	633	620	42.7	192	30
1,2-Dibromoethane	<30	<30	<30	<30	30
Dichlorobenzenes ⁽¹⁾	972	298	364	230	30
1,2-Dichloroethane	80.8	69.5	24.8	42.1	20
Trichloroethene	641	571	162	276	20
Perchloroethylene	2,050	1,730	480	868	20
Toluene	41,000	35,900	7,370	22,600	20
1,1,1-trichloroethane	<20	<20	<20	<20	20
Total Xylenes*	14,800	17,920	9,800	12,650	20
Vinyl Chloride	208	183	401	245	20
Compound	(ppmV)	(ppmV)	(ppmV)	(ppmV)	(ppmV)
Total Non-Methane Organics (as Methane)	8,720	7,890	2,680	5,300	20
Hydrogen sulfide	19.9	46.6	34.9	19.7	0.5
Carbonyl sulfide	0.38	0.39	0.25	0.22	0.08
Methyl mercaptan	5.58	4.91	1.13	3.62	0.06
Ethyl mercaptan	<0.1	<0.1	0.17	<0.1	0.1
Dimethyl sulfide	7.69	6.42	1.12	7.01	0.1
Carbon disulfide	0.16	0.095	0.22	0.082	0.09
Isopropyl mercaptan	0.36	0.30	<0.08	0.13	0.08
n-propyl mercaptan	0.081	<0.08	<0.08	<0.08	0.08
Dimethyl disulfide	0.43	0.46	0.55	0.66	0.06
Total reduced sulfur	63.5	59.7	39.1	32.4	0.5
BTU / ft.3	443	438	247	320	1

Table 5-2 (Continued)
Landfill Gas Sample - Laboratory Summary
Bradley Landfill & Recycling Center (BLRC)
February 21, 2006

SCAQMD Rule 1150.1 Components Analysis in Integrated Surface Tedlar Bag Samples					
Compound	Gas Plant (BL-001) (%,V)	Flare #1 BL-003 (%,V)	Flare #2 BL-004 (%,V)	Flare #3 BL-002 (%,V)	Reporting Limit (%,V)
Nitrogen	17.5	18.6	47.0	35.3	0.1
Oxygen	1.08	1.23	3.89	4.35	0.1
Methane	43.2	42.7	24.2	31.3	0.1
Carbon dioxide	37.4	36.9	24.8	27.9	0.1
ND: Not detected. *Total xylenes reported includes the sum of the detected concentrations of m- & p-xylenes and o-xylenes. ** = Coeluting Compounds The reported oxygen concentration includes any argon present in the sample. Calibration is based on a standard atmosphere containing 20.95% oxygen and 0.93% argon. (1) Total amount containing meta, para, and ortho isomers.					

Table 5-3
Quarterly H₂S Monitoring Results
Bradley Landfill, Sun Valley, California

DATE	TIME	TEMP °F	PLANT GAS SALES	FLARE 1	FLARE 2	FLARE 3
Colorimetric Tube Sample Results						
1/31/2006	15:30	63	60	40	20	40
2/27/2006			58	60	40	40
3/29/2006	10:00	54	60	58	40	40
Quarterly H₂S Laboratory Results						
2/21/2006			20	47	35	20

Notes:

Monthly H₂S readings taken using a Draeger colorimetric tube.

H₂S Sample readings are no longer taken daily at the compressor and flaring system.

Analyses taken using a 10 liter bag sample and analyzed by AtmAA Inc. Laboratory.

6 AMBIENT AIR SAMPLING§1150.1(e)(5)

6.1 Ambient Air Sampling Protocol

First quarter 2006 ambient air sampling was performed on March 5 and 6, 2006. Sampling was performed consistent with SCAQMD Rule 1150.1, Attachment A.

Four ambient air samplers were used to collect upwind (south) and downwind (north) samples. Two ambient air samplers were placed upwind at the landfill property boundary and two downwind at the landfill property boundary. Figure 1, Surface Emissions Monitoring Site Plan, shows the ambient air sample locations.

The ambient air sampling program was designed in accordance with the Guidelines for Implementation of Rule 1150.1 and the compliance plan requirements issued by the SCAQMD. All procedures and equipment used in the program are consistent with guideline specifications.

The Landfill compliance plan requires the collection of four (4) 12-hour samples located at the landfill perimeter. These 12-hour samples are representative of the predominant upslope and down slope wind flow patterns (two per location) during each 12-hour time periods. These locations were selected based upon evaluation of current and historic wind monitoring data collected on site. Sampling stations are positioned to provide good meteorological exposure to the predominant upslope flows and anticipated nighttime local air drainage patterns typically encountered at this site.

Ambient air samplers used at the landfill were constructed, installed, and operated to meet SCAQMD design criteria and performance specifications published in the Rule 1150.1 guidelines. Light-sealed boxes containing individual 10-liter Tedlar sample bags were housed within each sampling station enclosure. Analyses were performed within 72 hours after sampling was concluded

A Climatronics portable wind speed and direction station connected to a continuous recorder was used to record wind speed and direction for the entire duration of integrated sampling. Section 7, Field Instrumentation and Equipment Specifications, describes both the ambient air sampler assembly and the wind station in greater detail. Tedlar bags used for collecting the 24-hour integrated samples were purged three times with nitrogen and tested for leaks prior to usage. Appendix F, Tedlar Bag Quality Assurance and Control,

includes a Tedlar bag checklist that summarizes the pertinent data regarding this procedure

The four samples were analyzed for toxic air contaminants, methane, and TGNMOs by AtmAA, Inc. The technicians responsible for transporting the integrated samples recorded pertinent information on a Chain-of-Custody form included in Appendix E, Ambient Air Sampling. Additional personnel receiving the integrated samples recorded their signatures on the Chain-of-Custody form.

Ambient air samples were collected when the average wind speed was five miles per hour or less, and the instantaneous wind speed was less than fifteen miles per hour. The samples were not collected within 72 hours of a rainstorm. Wind speed and direction charts are included in Appendix E.

6.2 Ambient Air Laboratory Results

Upwind ambient air samples (AA-1, AA-4) and downwind ambient air samples (AA-2, AA-3) were sent to AtmAA, Inc. on March 7, 2006 for analysis. Table 6-1, Ambient Air Samples Laboratory Summary, summarizes the laboratory methods and results.

Upwind Samples

Laboratory analysis of sample AA-1 (Lab Sample 0666-2) detected a TGNMO concentration of 1.28 ppmv. The methane concentration was 2.54 ppmv, benzene concentration was 0.34 ppmv, dichloromethane concentration was 0.22, carbon tetrachloride concentration was 0.10 ppmv, toluene concentration was 0.90 ppmv, and total xylenes concentration was 0.90 ppmv.

Laboratory analysis of sample AA-4 (Lab Sample 0666-5) detected a TGNMO concentration of 1.10 ppmv. The methane concentration was 3.19 ppmv, benzene concentration was 0.75 ppmv, carbon tetrachloride concentration was 0.10 ppmv, toluene concentration was 1.54 ppmv, and total xylenes concentration was 0.92 ppmv.

Downwind Samples

Laboratory analysis of sample AA-2 (Lab Sample 0666-3) detected a TGNMO concentration of 1.58 ppmv. The methane concentration was 2.35 ppmv, benzene concentration was 0.44 ppmv, carbon tetrachloride concentration was 0.10 ppmv, toluene concentration was 1.65 ppmv, and total xylenes concentration was 0.97 ppmv.

Laboratory analysis of sample AA-3 (Lab Sample 0666-4) detected a TGNMO concentration of 1.26 ppmv. The methane concentration was 4.13 ppmv, benzene concentration was 0.69 ppmv, dichloromethane concentration was 0.35 ppmv, carbon

tetrachloride concentration was 0.10 ppmv, toluene concentration was 2.39 ppmv, and total xylenes concentration was 1.38 ppmv.

Table 6-1
Ambient Air Sampling Laboratory Summary
Bradley Landfill & Recycling Center (BLRC)
March 5 and 6, 2006

SCAQMD Rule 1150.1 Components Analysis in Ambient Air Tedlar Bag Samples			
Compound	Sample Ambient Air AA-1 Results (ppbV)	Sample Ambient Air AA-2 Results (ppbV)	Reporting Limit (ppbV)
Hydrogen Sulfide	<50	<50	50
Benzene	0.34	0.44	0.1
Benzyl Chloride	<0.4	<0.4	0.4
Carbon Tetrachloride	0.10	0.10	0.1
Chlorobenzene	<0.2	<0.2	0.2
Chloroform	<0.1	<0.1	0.1
1,1-Dichloroethane	<0.2	<0.2	0.2
1,1-Dichloroethylene	<0.2	<0.2	0.2
1,2-Dibromoethane	<0.2	<0.2	0.2
Dichlorobenzene ⁽¹⁾	<1.1	<1.1	1.1
Dichloromethane	0.22	0.29	0.1
1,2-Dichloroethane	<0.2	<0.2	0.2
1,1,1-Trichloroethane	<0.1	<0.1	0.1
Perchloroethene	<0.1	<0.1	0.1
Toluene	0.90	1.65	0.1
Total Xylenes*	0.90	0.97	0.3
Trichloroethene	<0.1	<0.1	0.1
Vinyl Chloride	<0.2	<0.2	0.2
SCAQMD Rule 1150.1 Components Analysis in Ambient Air Tedlar Bag Samples			
Compound	Sample Ambient Air AA-1 Results (ppmV)	Sample Ambient Air AA-2 Results (ppmV)	Reporting Limit (ppmV)
Methane	2.54	2.35	1
Total Non-Methane Organics (as methane)	1.28	1.58	1

Table 6-1 (Continued)
Ambient Air Sampling Laboratory Summary
Bradley Landfill & Recycling Center (BLRC)
March 5 and 6, 2006

SCAQMD Rule 1150.1 Components Analysis in Ambient Air Tedlar Bag Samples			
Compound	Sample Ambient Air AA-3 Results (ppbV)	Sample Ambient Air AA-4 Results (ppbV)	Reporting Limit (ppbV)
Hydrogen Sulfide	<50	<50	50
Benzene	0.69	0.75	0.1
Benzyl Chloride	<0.4	<0.4	0.4
Carbon Tetrachloride	0.10	0.10	0.1
Chlorobenzene	<0.2	<0.2	0.2
Chloroform	<0.1	<0.1	0.1
1,1-Dichloroethane	<0.2	<0.2	0.2
1,1-Dichloroethylene	<0.2	<0.2	0.2
1,2-Dibromoethane	<0.2	<0.2	0.2
Dichlorobenzene ⁽¹⁾	<1.1	<1.1	1.1
Dichloromethane	0.35	0.35	0.1
1,2-Dichloroethane	<0.2	<0.2	0.2
1,1,1-Trichloroethane	<0.1	<0.1	0.1
Perchloroethene	<0.1	<0.1	0.1
Toluene	2.39	1.54	0.1
Total Xylenes*	1.38	0.93	0.3
Trichloroethene	<0.1	<0.1	0.1
Vinyl Chloride	<0.2	<0.2	0.2
SCAQMD Rule 1150.1 Components Analysis in Ambient Air Tedlar Bag Samples			
Compound	Sample Ambient Air AA-3 Results (ppmV)	Sample Ambient Air AA-4 Results (ppmV)	Reporting Limit (ppmV)
Methane	4.13	3.19	1
Total Non-Methane Organics (as methane)	1.26	1.10	1

7 FIELD INSTRUMENTATION AND EQUIPMENT SPECIFICATIONS

7.1 Meteorological Station

A Climatronics portable meteorological station is used for measuring wind speed and direction during instantaneous and integrated surface sampling, and ambient air monitoring. This monitor collects continuous wind data during all monitoring events. The wind system consists of a Climatronics monitor, equipped with F460 wind sensors with threshold speeds of 0.50 miles per hour and a portable dual channel recording strip chart.

A continuous recorder and battery is housed in a portable steel case to prevent damage to the system. The continuous recorder averages wind speed and direction measurements in 15-minute increments. Measurements are recorded on a strip chart. The date, time, and wind speed and direction measurements are recorded daily after each instantaneous or integrated sampling session is completed.

A supervisor monitored the wind speed during instantaneous and integrated sampling sessions so that technicians are continuously aware of the wind speed when walking traverses or grid patterns.

7.2 Organic Vapor Analyzer

A portable Organic Vapor Analyzer (OVA) manufactured by Foxboro was used for monitoring the surface emission concentration of total organic compounds (TOCs) during instantaneous monitoring, and for measuring TOC concentrations in integrated surface samples and perimeter probes (ppm range). The OVA used had the following specifications:

- Range: 0-10,000 ppm (v/v)
- Minimum detectable limit: 5 ppm
- Response time: 15 seconds
- Flame out indicator: audible and visual
- Accuracy: +/-4%
- Precision: +/-3%

- Ambient temperature: 0-50 degrees Celsius

7.3 GEM-500 Gas Extraction Monitor

A GEM-500 Gas Extraction Monitor, manufactured by LANDTEC for use at landfills, was used for monitoring LFG composition. Compounds measured include methane, carbon dioxide, oxygen, and balance gas as nitrogen in percent volume and methane as percent of LEL.

The GEM-500 specifications are as follows:

	Sensor Range Imperial	Resolution Imperial
Methane - CH ₄ :	0-100%	0.1%
Carbon dioxide - CO ₂ :	0-75%	0.1%
Oxygen - O ₂ :	0-100%	0.1%
Pressure (differential):	0-10" w.c.	0.01" w.c.
(static):	0-100" w.c.	0.1" w.c.

GEM-500 typical accuracy:

Concentration	%CH ₄ by Volume	%CO ₂ by Volume	%O ₂ by Volume
5% LEL	+/- 0.3%	N/A	+/- .25%
75%	+/- 1.9%	+/- 3.0%	N/A
100%	+/- 1.95%	N/A	N/A

7.4 GEM-2000 Gas Extraction Monitor

A GEM-2000 Gas Extraction Monitor, manufactured by LANDTEC for use at landfills, was used for monitoring LFG composition. Compounds measured include methane, carbon dioxide, oxygen, and balance gas as nitrogen in percent volume and methane as percent of LEL.

The GEM-2000 specifications are as follows:

	Sensor Range Imperial	Resolution Imperial
Methane - CH ₄ :	0-100%	0.1%
Carbon dioxide – CO ₂ :	0-100%	0.1%
Oxygen – O ₂ :	0-25%	0.1%
Pressure (differential):	0-10" w.c.	0.01" w.c.
(static):	0-100" w.c.	0.1" w.c.

GEM-2000 typical accuracy:

Concentration	%CH₄ by Volume	%CO₂ by Volume	%O₂ by Volume
0-5%	+/- 0.5%	+/- 0.5%	+/- .25%
5-15%	+/- 1%	+/- 1%	N/A
15%-FS	+/- 3%	N/A	N/A

7.5 Integrated Surface Sampler

Each portable Integrated Sampler is comprised of a Tedlar bag, DC pump, and a calibrated flow controller. Each bag sampler is calibrated by a film (bubble meter) calibration method. Each Tedlar bag sample was purged three times with ultra-pure nitrogen before sampling and enclosed in a light-sealed box after sampling. Analyses were performed within 72 hours after sampling was conducted.

7.6 Tedlar Bags

Ten-liter bags, made of Tedlar material, were used to collect integrated samples, and for the collection of the raw gas sample at the main gas conveyance line. Each Tedlar bag, prior to use, is filled with nitrogen for a minimum of 24 hours and checked for leaks. Each used Tedlar bag is purged three times with nitrogen and refilled with nitrogen for a minimum of 24 hours and checked for leaks. Each Tedlar bag is numbered for tracking purposes and each number corresponds with the number of the integrated sampling grid.

LIMITATIONS

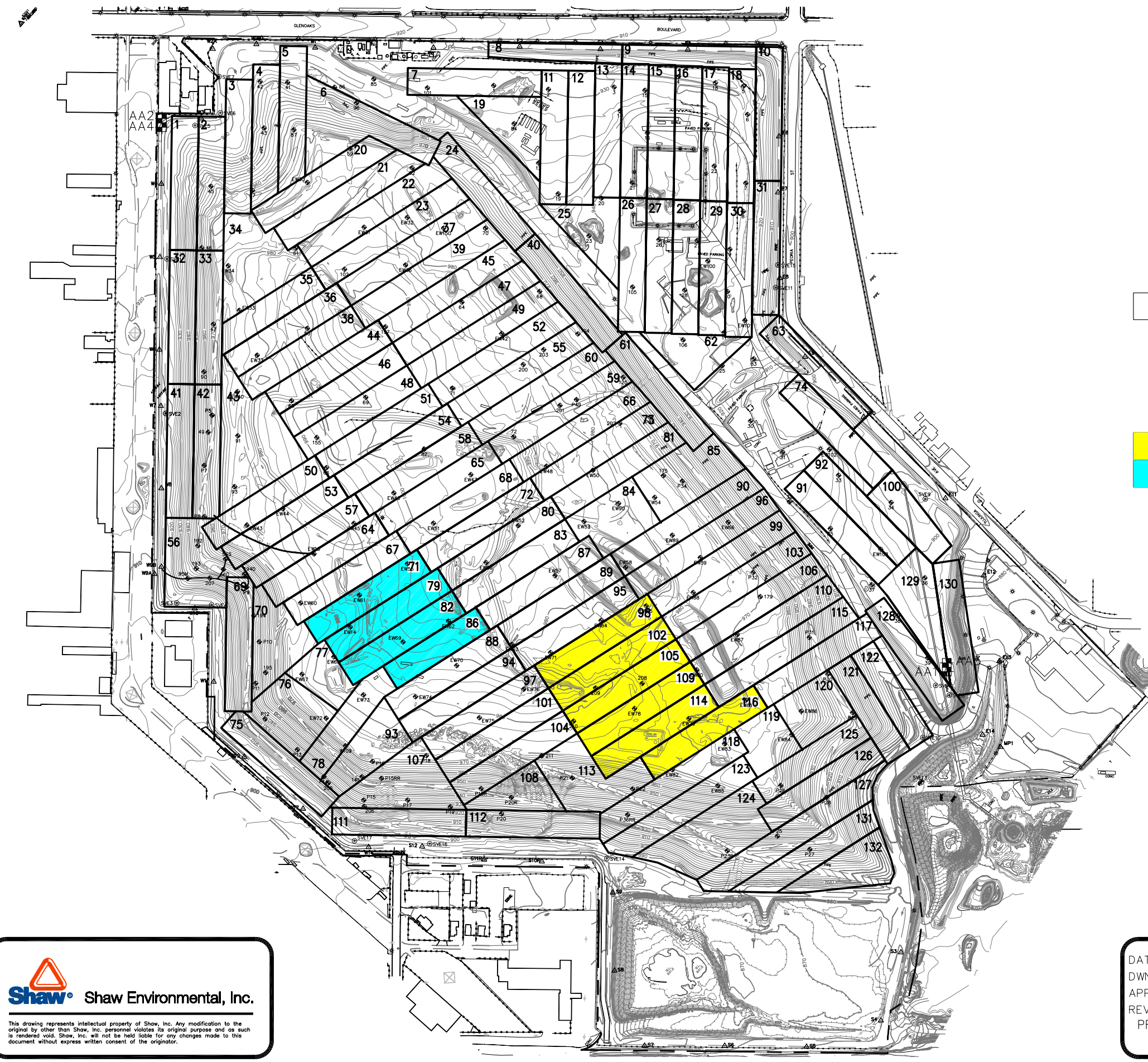
The services described in this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our agreement with our client. This report is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this report apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, nor the use of segregated portions of this report.

FIGURES

1" 1/2" 0" 1"

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LEGEND

- 179 + VAPOR EXTRACTION WELLS
- PROPERTY BOUNDARY
- 1 SURFACE EMISSIONS MONITORING GRID
- AA1 + UP WIND SAMPLER
- AA2 + DOWN WIND SAMPLER
- AA3 + DOWN WIND SAMPLER
- AA4 + UP WIND SAMPLER
- ACTIVE FILL AREA FEBRUARY 2006
- ACTIVE FILL AREA MARCH 2006

NOTES:

- 1) ALL TOTAL ORGANIC COMPOUND (TOC) CONCENTRATIONS ARE MEASURED IN PARTS PER MILLION (PPM) AS METHANE.
- 2) BACKGROUND TOC READING WAS 5 ppm.
- 3) BRADLEY WEATHER STATION IS LOCATED ATOP THE MAIN OFFICE BUILDING (NOT SHOWN ON MAP) .
- 4) AA = AMBIENT AIR MONITORING STATION.



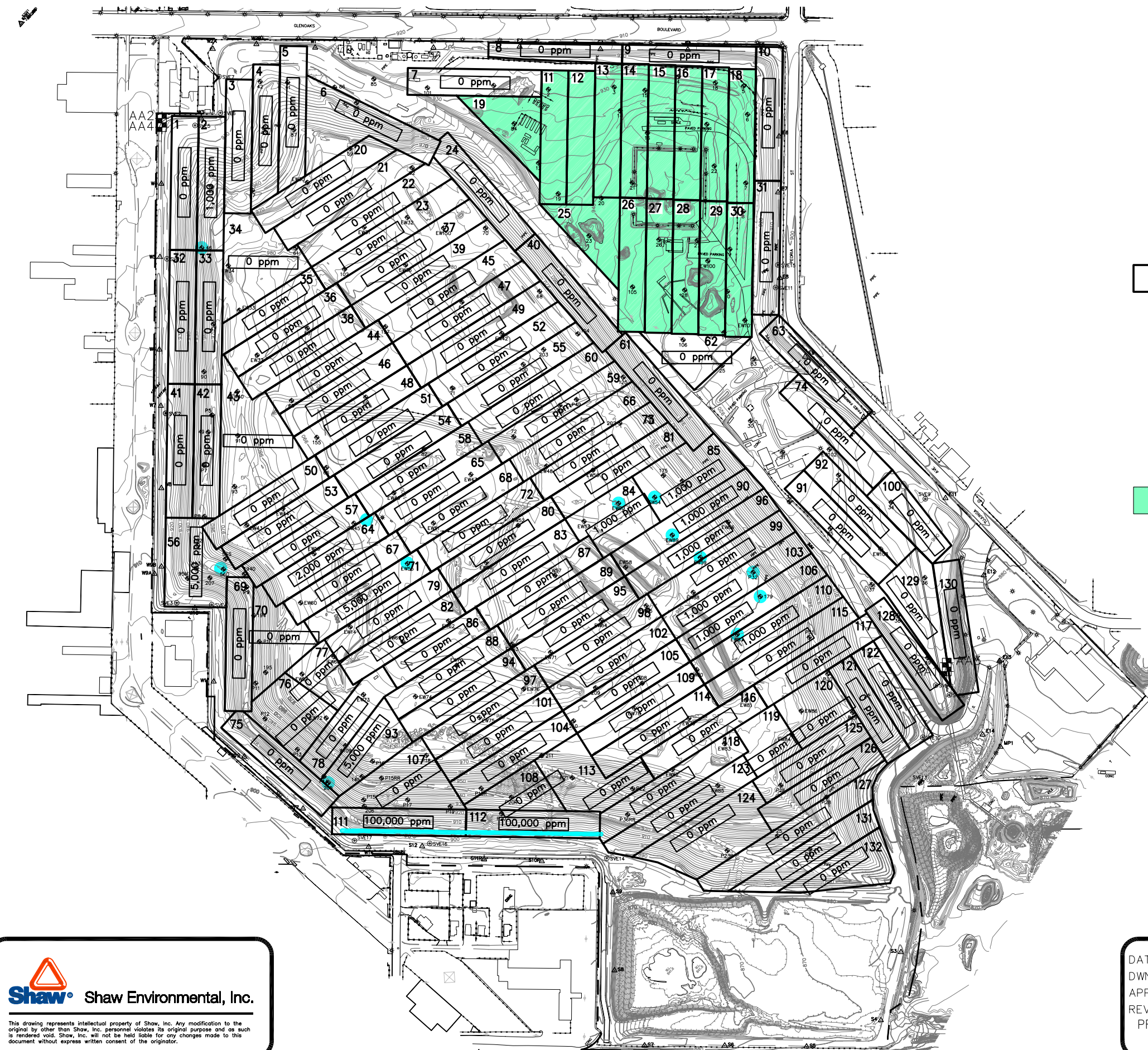
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DATE 05/05/06
DWN JDT
APP RF
REV
PROJECT NO. 108341

FIGURE 1
WASTE MANAGEMENT OF CALIFORNIA, INC.
BRADLEY LANDFILL AND RECYCLING CENTER
SUN VALLEY, CALIFORNIA
1ST QUARTER 2006
SURFACE EMISSIONS MONITORING SITE PLAN

1" 1/2" 0" 1"

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LEGEND

- PROPERTY BOUNDARY
- 0 ppm INTEGRATED SURFACE SAMPLING GRID
- TOTAL ORGANIC COMPOUNDS (TOC) MEASURED AS METHANE USING ORGANIC VAPOR ANALYZER
- AA1 UP WIND SAMPLER
- AA2 DOWN WIND SAMPLER
- AA3 DOWN WIND SAMPLER
- AA4 UP WIND SAMPLER
- READINGS OVER 500 ppm JANUARY 2006
- GREENWASTE AREAS (NOT MONITORED THIS MONTH)

NOTES:

- 1) ALL TOTAL ORGANIC COMPOUND (TOC) CONCENTRATIONS ARE MEASURED IN PARTS PER MILLION (PPM) AS METHANE.
- 2) BACKGROUND TOC READING WAS 5 ppm.
- 3) BRADLEY WEATHER STATION IS LOCATED ATOP THE MAIN OFFICE BUILDING (NOT SHOWN ON MAP) .
- 4) AA = AMBIENT AIR MONITORING STATION.
- 5) GRID 60 NOT MONITORED THIS MONTH DUE TO DRILLING.

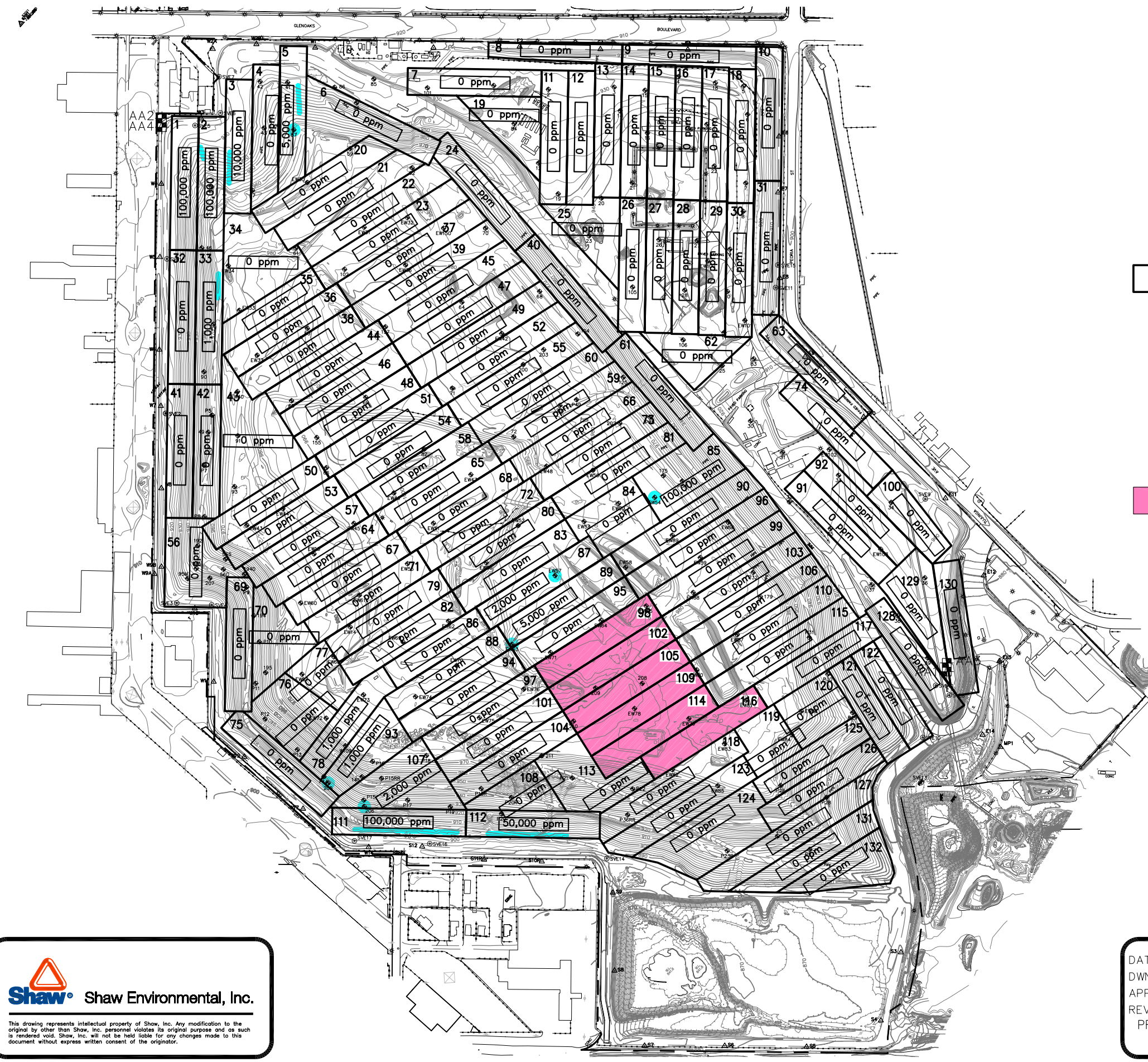


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DATE 05/05/06
DWN JDT
APP RF
REV
PROJECT NO. 108341

FIGURE 2A
WASTE MANAGEMENT OF CALIFORNIA, INC.
BRADLEY LANDFILL AND RECYCLING CENTER
SUN VALLEY, CALIFORNIA
JANUARY 2006 - 1ST QUARTER 2006
INSTANTANEOUS SURFACE EMISSIONS RESULTS

1" 1/2" 0" 1" File: N:\Cad\Drawings\Waste Management\Landfills\Bradley LF\061Q\1150-11.dwg Layout: Layout1 User: jeremy.totten May 08, 2006 - 1:58pm



LEGEND

- PROPERTY BOUNDARY
- 0 ppm INTEGRATED SURFACE SAMPLING GRID
- TOTAL ORGANIC COMPOUNDS (TOC) MEASURED AS METHANE USING ORGANIC VAPOR ANALYZER
- AA1 UP WIND SAMPLER
- AA2 DOWN WIND SAMPLER
- AA3 DOWN WIND SAMPLER
- AA4 UP WIND SAMPLER
- READINGS OVER 500 ppm FEBRUARY 2006
- ACTIVE AREA, FEBRUARY 2006

NOTES:

- 1) ALL TOTAL ORGANIC COMPOUND (TOC) CONCENTRATIONS ARE MEASURED IN PARTS PER MILLION (PPM) AS METHANE.
- 2) BACKGROUND TOC READING WAS 5 ppm.
- 3) BRADLEY WEATHER STATION IS LOCATED ATOP THE MAIN OFFICE BUILDING (NOT SHOWN ON MAP) .
- 4) AA = AMBIENT AIR MONITORING STATION.



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DATE 05/05/06
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REV
PROJECT NO. 108341

FIGURE 2B
WASTE MANAGEMENT OF CALIFORNIA, INC.
BRADLEY LANDFILL AND RECYCLING CENTER
SUN VALLEY, CALIFORNIA
FEBRUARY 2006 - 1ST QUARTER 2006
INSTANTANEOUS SURFACE EMISSIONS RESULTS

1" 1/2" 0"

File: N:\Cad\Drawings\Waste Management\Landfills\Bradley LF\061Q\1150-12.dwg Layout: Layout1 User: jeremy.totten May 08, 2006 - 2:00pm



LEGEND

- PROPERTY BOUNDARY
- 0 ppm INTEGRATED SURFACE SAMPLING GRID
- TOTAL ORGANIC COMPOUNDS (TOC) MEASURED AS METHANE USING ORGANIC VAPOR ANALYZER
- AA1 UP WIND SAMPLER
- AA2 DOWN WIND SAMPLER
- AA3 DOWN WIND SAMPLER
- AA4 UP WIND SAMPLER
- READINGS OVER 500 ppm MARCH 2006
- ACTIVE AREA, MARCH 2006
- GREENWASTE AREAS

NOTES:

- 1) ALL TOTAL ORGANIC COMPOUND (TOC) CONCENTRATIONS ARE MEASURED IN PARTS PER MILLION (PPM) AS METHANE.
- 2) BACKGROUND TOC READING WAS 5 ppm.
- 3) BRADLEY WEATHER STATION IS LOCATED ATOP THE MAIN OFFICE BUILDING (NOT SHOWN ON MAP) .
- 4) AA = AMBIENT AIR MONITORING STATION.



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DATE 05/05/06
DWN JDT
APP RF
REV
PROJECT NO. 108341

FIGURE 2C
WASTE MANAGEMENT OF CALIFORNIA, INC.
BRADLEY LANDFILL AND RECYCLING CENTER
SUN VALLEY, CALIFORNIA
MARCH 2006 - 1ST QUARTER 2006
INSTANTANEOUS SURFACE EMISSIONS RESULTS



LEGEND

- PROPERTY BOUNDARY
- 5 ppm INTEGRATED SURFACE SAMPLING GRID
- TOTAL ORGANIC COMPOUNDS (TOC) MEASURED AS METHANE USING ORGANIC VAPOR ANALYZER
- AA1 UP WIND SAMPLER
- AA2 DOWN WIND SAMPLER
- AA3 DOWN WIND SAMPLER
- AA4 UP WIND SAMPLER
- ACTIVE AREA
- GREENWASTE AREAS

NOTES:

- 1) ALL TOTAL ORGANIC COMPOUND (TOC) CONCENTRATIONS ARE MEASURED IN PARTS PER MILLION (PPM) AS METHANE.
- 2) BACKGROUND TOC READING WAS 5 ppm.
- 3) BRADLEY WEATHER STATION IS LOCATED ATOP THE MAIN OFFICE BUILDING (NOT SHOWN ON MAP) .
- 4) AA = AMBIENT AIR MONITORING STATION.
- 5) MAP READINGS ARE CONCENTRATIONS ABOVE BACKGROUND.



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DATE 05/05/06
DWN JDT
APP RF
REV
PROJECT NO. 108341

FIGURE 3
WASTE MANAGEMENT OF CALIFORNIA, INC.
BRADLEY LANDFILL AND RECYCLING CENTER
SUN VALLEY, CALIFORNIA
1ST QUARTER 2006
INTEGRATED SURFACE EMISSIONS RESULTS

APPENDIX A

SUBSURFACE PERIMETER PROBE MONITORING

- Field Sheets
- Laboratory Analysis
- Sample Chain-of-Custody
- Instrumentation Calibration

Monthly

BRADLEY LANDFILL GAS PROBE READINGS

EQUIPMENT USED: Landtec GEM 2000 (Serial No. 07406)
Calibrated to 15.0% CH₄

BAROMETRIC (before): 29.36

TECHNICIAN: VICTOR LAM

BAROMETRIC (after): 29.27

START TIME: 0843

FINISH TIME: 1453

Probe No.	Static Pres. (In w.c.)	TOC (% CH ₄)	Action Level
W-1S	0.0	0.0	1
W-1M	0.0	0.0	1
W-1D	-0.2	0.0	1
W-2A	0.0	0.0	1
W-2B	-0.0	0.0	1
W-3S	0.0	0.0	1
W-3M	-0.2	0.0	1
W-3D	-0.5	0.0	1
W-4	-0.2	0.0	1
W-5S	0.0	0.0	1
W-5M	-0.5	0.0	1
W-5D	-1.1	0.0	1
W-6	-0.2	0.0	1
W-7S	0.0	0.1	1
W-7M	-1.3	0.0	1
W-7D	-1.0	0.2	1
W-8	0.0	0.0	1
W-9A	0.0	0.0	1
W-9B	0.0	0.0	1
W-10S	0.0	0.0	1
W-10M	-0.5	0.0	1
W-10D	-0.2	0.0	1
W-11	0.0	0.0	1
W-12S	0.0	0.0	1
W-12M	-0.3	0.0	1
W-12D	0.0	0.0	1
W-13	0.0	0.0	1
W-14S	0.0	0.0	1
W-14M	0.0	0.0	1
W-14D	-0.4	0.0	1

Probe No.	Static Pres. (In w.c.)	TOC (% CH ₄)	Action Level
S-3S	+0.1	0.2	1
S-3M1	0.0	0.0	1
S-3M2	0.0	0.0	1
S-3D	+0.1	0.0	1
S-4	+0.1	0.0	1
S-5	+0.1	0.0	1
S-6S	+0.1	0.0	1
S-6M1	+0.2	0.0	1
S-6M2	+0.2	0.0	1
S-6D	+0.1	0.1	1
S-7	+0.1	0.0	1
S-8	+0.2	0.0	1
S-9S-R	-0.1	0.0	1
S-9M1-R	-0.1	0.0	1
S-9M2-R	0.0	0.0	1
S-9D-R	-0.4	0.0	1
S-10R	+0.1	0.0	1
S-11R	+0.2	0.0	1
S-12	0.0	0.0	1

Probe No.	Static Pres. (In w.c.)	TOC (% CH ₄)	Action Level
E-1	+0.1	0.0	1
E-2S	0.0	0.0	1
E-2M	0.0	0.0	1
E-2D	-0.2	0.0	1
E-3	-2.1	0.0	1
E-4	0.0	0.0	1
E-5S	0.0	0.0	1
E-5M	0.0	0.0	1
E-5D	0.0	0.2	1
E-6	-2.0	0.0	1
E-7	-2.0	0.0	1
E-8S	-13.0	0.0	1
E-8M	-0.2	0.0	1
E-8D	-0.4	61.3	N/A
E-9	0.0	0.0	1
E-10	+0.1	0.0	1
E-11S-R	+0.1	0.0	1
E-11M-R	0.0	0.0	1
E-11D-R	-0.1	0.0	1
E-12	0.0	0.0	1
E-13	0.0	0.0	1
E-14S	+0.2	0.0	1
E-14M	+0.1	0.0	1
E-14D	0.0	0.0	1

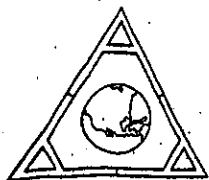
- Action Levels: (1) All probes monitored show methane less than 3%. Fax to Ann Jones.
 (2) Any probe showing methane concentrations equal or greater than 3% and less than 5%. (see instructions on reverse)
 (3) Any probe containing methane concentrations of 5% or greater. (see instructions on reverse)
 (4) Any probe exceeding 5% for 3 or more days (see instructions on reverse)

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentrations remains constant for 30 seconds.

All probes at Action Level (1). No action items required: Yes / No

Technician: Victor Lam Date: 01/16/06

(If "No", please see attached Action Taken and Notification sheet)



AtmAA Inc.

23917 Craftsman Rd., Calabasas, CA 91302 • (818) 223-3277 • FAX (818) 223-8250

LABORATORY ANALYSIS REPORT

environmental consultants
laboratory services

SCAQMD Rule 1150.1 Components Analysis in Probe Tedlar Bag Sample

Report Date: January 20, 2006
Client: Shaw Environmental
Project Location: Bradley Landfill
Date Received: January 17, 2006
Date Analyzed: January 17 & 18, 2006

AtmAA Lab No.: 00176-1
Sample I.D.: Probe E-8D
BL-001

Components	(Concentration in %,v)
Nitrogen	10.6
Oxygen	0.48
Methane	51.2
Carbon dioxide	35.7

	(Concentration in ppmv)
TGNMO	154
Hydrogen sulfide	<0.5

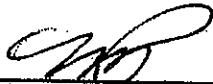
	(Concentration in ppbv)
Benzene	<20
Benzylchloride	<40
Chlorobenzene	<30
Dichlorobenzenes*	<30
1,1-dichloroethane	<30
1,2-dichloroethane	<20
1,1-dichloroethylene	<30
Dichloromethane	<30
1,2-dibromoethane	<30
Perchloroethylene	<30
Carbon tetrachloride	<30
Toluene	<20
1,1,1-trichloroethane	<20
Trichloroethene	<20
Chloroform	<20
Vinyl chloride	188
m+p-xylenes	<30
o-xylene	<20

The accuracy of permanent gas analysis by TCD/GC is +/- 2%, actual results are reported.

The reported oxygen concentration includes any argon present in the sample. Calibration is based on a standard atmosphere containing 20.95% oxygen and 0.93% argon.

TGNMO is total gaseous non-methane organics (excluding ethane), reported as ppm methane.

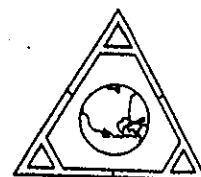
* total amount containing meta, para, and ortho isomers


Michael L. Porter
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Bradley Landfill
Date Received: January 17, 2006
Date Analyzed: January 17 & 18, 2006

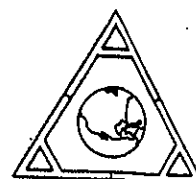
Components	Sample ID	Repeat Analysis		Mean Conc.	% Diff. From Mean
		Run #1	Run #2		
		(Concentration in %,v)			
Nitrogen	Probe E-8D	10.5	10.8	10.6	1.4
Oxygen	Probe E-8D	0.44	0.51	0.48	7.4
Methane	Probe E-8D	51.2	51.2	51.2	0.0
Carbon dioxide	Probe E-8D	35.6	35.8	35.7	0.28
(Concentration in ppmv)					
TGNMO	Probe E-8D	158	151	154	2.3
Hydrogen sulfide	Probe E-8D	<0.5	<0.5	---	---
(Concentration in ppbv)					
Benzene	Probe E-8D	<20	<20	---	---
Benzylchloride	Probe E-8D	<40	<40	---	---
Chlorobenzene	Probe E-8D	<30	<30	---	---
Dichlorobenzenes	Probe E-8D	<30	<30	---	---
1,1-dichloroethane	Probe E-8D	<30	<30	---	---
1,2-dichloroethane	Probe E-8D	<20	<20	---	---
1,1-dichloroethylene	Probe E-8D	<30	<30	---	---
Dichloromethane	Probe E-8D	<30	<30	---	---
1,2-dibromoethane	Probe E-8D	<30	<30	---	---
Perchloroethylene	Probe E-8D	<30	<30	---	---
Carbon tetrachloride	Probe E-8D	<30	<30	---	---



QUALITY ASSURANCE SUMMARY
(Repeat Analyses)
(continued)

Components	Sample ID	Repeat Analysis		Mean Conc.	% Diff. From Mean
		Run #1	Run #2		
		(Concentration in ppbv)			
Toluene	Probe E-8D	<20	<20	---	---
1,1,1-trichloroethane	Probe E-8D	<20	<20	---	---
Trichloroethene	Probe E-8D	<20	<20	---	---
Chloroform	Probe E-8D	<20	<20	---	---
Vinyl chloride	Probe E-8D	186	191	188	1.3
m+p-xylenes	Probe E-8D	<30	<30	---	---
o-xylene	Probe E-8D	<20	<20	---	---

One Tedlar bag sample, laboratory number 00176-1, was analyzed for SCAQMD Rule 1150.1 components, permanent gases, and total gaseous non-methane organics (TGNMO). Agreement between repeat analyses is a measure of precision and is shown above in the column "% Difference from Mean". Repeat analyses are an important part of AtmAA's quality assurance program. The average % Difference from Mean for 6 repeat measurements from the one Tedlar bag sample is 2.1%.



Monthly

EQUIPMENT USED: Landtec GEM 2000 (Serial No. 07406)

Calibrated to 15.0% CH₄.

TECHNICIAN: RAUL BONGATO

DATE: 2/22/06

BAROMETRIC (before): 29.19

BAROMETRIC (after): 29.12

START TIME: 8:33

FINISH TIME: 15:55

Probe No.	Static Pres. (in w.c.)	TOC (% CH ₄)	Action Level
W-1S	+0.0	0.0	1
W-1M	+0.0	0.0	1
W-1D	+0.0	0.0	1
W-2A	+0.0	0.0	1
W2B	+0.0	0.0	1
W-3S	-0.1	0.0	1
W-3M	-0.1	0.0	1
W-3D	-0.3	0.0	1
W-4	-0.1	0.0	1
W-5S	-0.1	0.0	1
W-5M	-0.4	0.0	1
W-5D	-0.7	0.0	1
W-6	-0.2	0.0	1
W-7S	-0.2	0.0	1
W-7M	-1.1	0.0	1
W-7D	-0.7	0.0	1
W-8	-0.1	0.0	1
W-9A	-0.1	0.0	1
W-9B	-0.2	0.0	1
W-10S	-0.2	0.0	1
W-10M	-0.5	0.0	1
W10D	-0.3	0.0	1
W-11	-0.1	0.0	1
W-12S	-0.1	0.0	1
W12M	-0.3	0.0	1
W-12D	-0.1	0.0	1
W-13	-0.2	0.0	1
W-14S	-0.2	0.0	1
W-14M	-0.3	0.1	1
W-14D	-0.8	0.0	1

[illegible][illegible]

- Action Levels: (1) All probes monitored show methane less than 3%. Fax to Ann Jones.
(2) Any probe showing methane concentrations equal or greater than 3% and less than 5%. (see instructions on reverse)
(3) Any probe containing methane concentrations of 5% or greater. (see instructions on reverse)
(4) Any probe exceeding 5% for 3 or more days (see instructions on reverse)

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentrations remains constant for 30 seconds.

All probes at Action Level (1), No action items required: Yes / No

Technician:

Date: 2/20/06

(If "No", please see attached Action Taken and Notification sheet)



AtmAA Inc.

23917 Craftsman Rd., Calabasas, CA 91302 • (818) 223-3277 • FAX (818) 223-8250

LABORATORY ANALYSIS REPORT

environmental consultants
laboratory services

SCAQMD Rule 1150.1 Components Analysis in Probe Tedlar Bag Sample

Report Date: March 1, 2006
Client: Shaw Environmental
Project Location: Bradley Landfill
Client Project No.: 108341.01
Date Received: February 21, 2006
Date Analyzed: February 21 & 22, 2006

AtmAA Lab No.: 00526-8
Sample I.D.: Probe E-8D

BL-005

Components	(Concentration in %,v)
Nitrogen	10.4
Oxygen	0.54
Methane	51.9
Carbon dioxide	37.2

	(Concentration in ppmv)
TGNMO	61.5
Hydrogen sulfide	<0.5

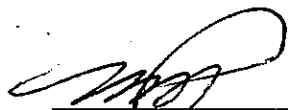
	(Concentration in ppbv)
Benzene	<20
Benzylchloride	<40
Chlorobenzene	<30
Dichlorobenzenes*	<30
1,1-dichloroethane	<30
1,2-dichloroethane	<20
1,1-dichloroethylene	<30
Dichloromethane	<30
1,2-dibromoethane	<30
Perchloroethylene	<30
Carbon tetrachloride	<30
Toluene	<20
1,1,1-trichloroethane	<20
Trichloroethene	<20
Chloroform	<20
Vinyl chloride	104
m+p-xylenes	<30
o-xylene	<20

The accuracy of permanent gas analysis by TCD/GC is +/- 2%, actual results are reported.

The reported oxygen concentration includes any argon present in the sample. Calibration is based on a standard atmosphere containing 20.95% oxygen and 0.93% argon.

TGNMO is total gaseous non-methane organics (excluding ethane), reported as ppm methane.

* total amount containing meta, para, and ortho isomers


Michael L. Porter
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Bradley Landfill
Date Received: February 21, 2006
Date Analyzed: February 21 & 22, 2006

Components	Sample ID	Repeat Analysis		Mean Conc.	% Diff. From Mean
		Run #1	Run #2		
		(Concentration in %,v)			
Nitrogen	No Repeat				
Oxygen	No Repeat				
Methane	No Repeat				
Carbon dioxide	No Repeat				
(Concentration in ppmv)					
TGNMO	No Repeat				
Hydrogen sulfide	Probe E-8D	<0.5	<0.5	---	---
(Concentration in ppbv)					
Benzene	Probe E-8D	<20	<20	---	---
Benzylchloride	Probe E-8D	<40	<40	---	---
Chlorobenzene	Probe E-8D	<30	<30	---	---
Dichlorobenzenes	Probe E-8D	<30	<30	---	---
1,1-dichloroethane	Probe E-8D	<30	<30	---	---
1,2-dichloroethane	Probe E-8D	<20	<20	---	---
1,1-dichloroethylene	Probe E-8D	<30	<30	---	---
Dichloromethane	Probe E-8D	<30	<30	---	---
1,2-dibromoethane	Probe E-8D	<30	<30	---	---
Perchloroethylene	Probe E-8D	<30	<30	---	---
Carbon tetrachloride	Probe E-8D	<30	<30	---	---



QUALITY ASSURANCE SUMMARY
(Repeat Analyses)
(continued)

Components	Sample ID	Repeat Analysis		Mean Conc.	% Diff. From Mean
		Run #1	Run #2		
		(Concentration in ppbv)			
Toluene	Probe E-8D	<20	<20	---	---
1,1,1-trichloroethane	Probe E-8D	<20	<20	---	---
Trichloroethene	Probe E-8D	<20	<20	---	---
Chloroform	Probe E-8D	<20	<20	---	---
Vinyl chloride	Probe E-8D	107	102	104	2.4
m+p-xylenes	Probe E-8D	<30	<30	---	---
o-xylene	Probe E-8D	<20	<20	---	---

One Tedlar bag sample, laboratory number 00526-8, was analyzed for SCAQMD Rule 1150.1 components, permanent gases, and total gaseous non-methane organics (TGNMO). Agreement between repeat analyses is a measure of precision and is shown above in the column "% Difference from Mean". Repeat analyses are an important part of AtmAA's quality assurance program. The % Difference from Mean for one repeat measurement from the one Tedlar bag sample is 2.4%.



Monthly Probe

BRADLEY LANDFILL GAS PROBE READINGS

LEAS GEM 3

EQUIPMENT USED: Landtec GEM 2000 (Serial No. 070406)
Calibrated to 15.0% CH₄

BAROMETRIC (before): 28.94

TECHNICIAN: RAUL BONGATO & MIKE MERCADO OF

BAROMETRIC (after): 28.96

DATE: 3/20/06 LEA

START TIME: 08:10

FINISH TIME: 15:19

Probe No.	Static Pres. (in w.c.)	TOC (% CH ₄)	Action Level
W-1S		0.0	1
W-1M		0.0	1
W-1D		0.0	1
W-2A		0.0	1
W-2B		0.0	1
W-3S		0.0	1
W-3M		0.0	1
W-3D		0.0	1
W-4		0.0	1
W-5S		0.0	1
W-5M		0.0	1
W-5D		0.0	1
W-6		0.0	1
W-7S		0.0	1
W-7M		0.0	1
W-7D		0.0	1
W-8		0.0	1
W-9A		0.0	1
W-9B		0.0	1
W-10S		0.0	1
W-10M		0.0	1
W-10D		0.0	1
W-11		0.0	1
W-12S		0.0	1
W-12M		0.0	1
W-12D		0.0	1
W-13		0.0	1
W-14S		0.0	1
W-14M		0.0	1
W-14D		0.0	1

Probe No.	Static Pres. (in w.c.)	TOC (% CH ₄)	Action Level
W14SR		0.0	1
W14MR		0.0	1
S-3S		0.0	1
S-3M1		0.0	1
S-3M2		0.0	1
S-3D		0.0	1
S-4		0.0	1
S-5		0.0	1
S-6S		0.0	1
S-6M1		0.0	1
S-6M2		0.0	1
S-6D		0.0	1
S-7		0.0	1
S-8		0.0	1
S-9S-R		0.0	1
S-9M1-R		0.0	1
S-9M2-R		0.0	1
S-9D-R		0.0	1
S-10R		0.0	1
S-11R		0.0	1
S-12		0.0	1

Probe No.	Static Pres. (in w.c.)	TOC (% CH ₄)	Action Level
E-1	-0.7	0.0	1
E-2S	+0.0	0.0	1
E-2M	+0.0	0.0	1
E-2D	+0.3	0.0	1
E-3	-0.2	0.0	1
E-4	+0.0	0.0	1
E-5S	+0.0	0.0	1
E-5M	+0.0	0.0	1
E-5D	+0.1	1.0	1
E-6	+0.0	0.0	1
E-7	+0.2	0.0	1
E-8S	+0.2	0.0	1
E-8M	+0.1	0.0	1
E-8D	+0.0	61.3	N/A
E-9+	+0.0	0.0	1
E-10	-0.7	0.0	1
E-11S-R		0.0	1
E-11M-R		0.0	1
E-11D-R		0.0	1
E-12		0.0	1
E-13		0.0	1
E-14S		0.0	1
E-14M		0.0	1
E-14D		0.0	1

- Action Levels: (1) All probes monitored show methane less than 3%. Fax to Ann Jones.
(2) Any probe showing methane concentrations equal or greater than 3% and less than 5%. (see instructions on reverse)
(3) Any probe containing methane concentrations of 5% or greater. (see instructions on reverse)
(4) Any probe exceeding 5% for 3 or more days (see instructions on reverse)

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentrations remains constant for 30 seconds.

All probes at Action Level (1). No action items required: Yes / No

Technician: Raul Bongato

Date: 3/20/06

(If "No", please see attached Action Taken and Notification sheet)

NOTE: W-1S to W-14D, S-3S to S-12 & E-11S-R to E-14D READINGS WERE DONE BY MIKE MERCADO OF LEA. - RB



AtmAA Inc.

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LABORATORY ANALYSIS REPORT

environmental consultants
laboratory services

SCAQMD Rule 1150.1 Components Analysis in Probe Tedlar Bag Sample

Report Date: March 27, 2006

Client: Shaw Environmental

Project Location: Bradley Landfill

Date Received: March 21, 2006

Date Analyzed: March 21 & 22, 2006

AtmAA Lab No.: 00806-2
Sample I.D.: Probe E-8D
BL-001

Components

Components	(Concentration in %,v)
Nitrogen	51.8
Oxygen	14.3
Methane	19.4
Carbon dioxide	13.0

	(Concentration in ppmv)
TGNMO	1780
Hydrogen sulfide	<0.5

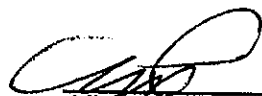
	(Concentration in ppbv)
Benzene	64.7
Benzylchloride	<40
Chlorobenzene	<30
Dichlorobenzenes*	<30
1,1-dichloroethane	139
1,2-dichloroethane	58.0
1,1-dichloroethylene	<30
Dichloromethane	<30
1,2-dibromoethane	<30
Perchloroethylene	<30
Carbon tetrachloride	<30
Toluene	21.6
1,1,1-trichloroethane	<20
Trichloroethene	<20
Chloroform	<20
Vinyl chloride	667
m+p-xylenes	40.0
o-xylene	<20

The accuracy of permanent gas analysis by TCD/GC is +/- 2%, actual results are reported.

The reported oxygen concentration includes any argon present in the sample. Calibration is based on a standard atmosphere containing 20.95% oxygen and 0.93% argon.

TGNMO is total gaseous non-methane organics (excluding ethane), reported as ppm methane.

* total amount containing meta, para, and ortho isomers


Michael L. Porter
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Bradley Landfill
Date Received: March 21, 2006
Date Analyzed: March 21 & 22, 2006

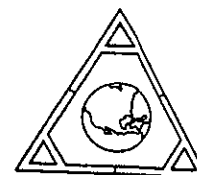
Components	Sample ID	Repeat Analysis		Mean Conc.	% Diff. From Mean
		Run #1	Run #2		
		(Concentration in %,v)			
Nitrogen	Probe E-8D	51.8	51.8	51.8	0.0
Oxygen	Probe E-8D	14.3	14.3	14.3	0.0
Methane	Probe E-8D	19.4	19.5	19.4	0.26
Carbon dioxide	Probe E-8D	13.1	13.0	13.0	0.38
(Concentration in ppmv)					
TGNMO	Probe E-8D	1780	1770	1780	0.28
Hydrogen sulfide	Probe E-8D	<0.5	<0.5	---	---
(Concentration in ppbv)					
Benzene	Probe E-8D	64.6	64.8	64.7	0.15
Benzylchloride	Probe E-8D	<40	<40	---	---
Chlorobenzene	Probe E-8D	<30	<30	---	---
Dichlorobenzenes	Probe E-8D	<30	<30	---	---
1,1-dichloroethane	Probe E-8D	140	138	139	0.72
1,2-dichloroethane	Probe E-8D	58.4	57.6	58.0	0.69
1,1-dichloroethylene	Probe E-8D	<30	<30	---	---
Dichloromethane	Probe E-8D	<30	<30	---	---
1,2-dibromoethane	Probe E-8D	<30	<30	---	---
Perchloroethylene	Probe E-8D	<30	<30	---	---
Carbon tetrachloride	Probe E-8D	<30	<30	---	---



QUALITY ASSURANCE SUMMARY
(Repeat Analyses)
(continued)

Components	Sample ID	Repeat Analysis		Mean Conc.	% Diff. From Mean
		Run #1	Run #2		
		(Concentration in ppbv)			
Toluene	Probe E-8D	23.2	20.0	21.6	7.4
1,1,1-trichloroethane	Probe E-8D	<20	<20	---	---
Trichloroethene	Probe E-8D	<20	<20	---	---
Chloroform	Probe E-8D	<20	<20	---	---
Vinyl chloride	Probe E-8D	665	669	667	0.30
m+p-xylenes	Probe E-8D	41.4	38.5	40.0	3.6
o-xylene	Probe E-8D	<20	<20	---	---

One Tedlar bag sample, laboratory number 00806-2, was analyzed for SCAQMD Rule 1150.1 components, permanent gases, and total gaseous non-methane organics (TGNMO). Agreement between repeat analyses is a measure of precision and is shown above in the column "% Difference from Mean". Repeat analyses are an important part of AtmAA's quality assurance program. The average % Difference from Mean for 11 repeat measurements from the one Tedlar bag sample is 1.2%.



APPENDIX B

INTEGRATED SURFACE EMISSION MONITORING

- Field Sheets
- Laboratory Analysis
- Sample Chain-of-Custody
- Integrated Sampling QA/QC Forms
- Instrumentation Calibration

BRADLEY LANDFILL

INTEGRATED LANDFILL SURFACE MONITORING

Personnel:

Craig Markley

Jon Berchor

Johnny Espinoza

Karl Ross

Allen Cumpton

Date: 29-06

Instrument Used:

ISS 1-5

Temperature:

65°

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	ROTO-MTR, CC/MIN	WIND SPEED, MPH/DIRECT	REMARKS
43	CM	0730	0755	5	1303	3 15	
50	JE	0730	0755	5		3 15	
53	AC	0730	0755	5		3 15	
57	JB	0730	0755	5		3 15	
38	KR	0730	0755	5		3 15	
44	CM	0800	0825	5		3 15	
46	JE	0800	0825	5		3 15	
48	AC	0800	0825	5		3 15	
34	JB	0800	0825	5		3 15	
35	KR	0800	0825	6		3 15	
26	CM	0830	0855	7		3 15	
51	JE	0830	0855	5		3 15	
54	AC	0830	0855	5		3 15	
58	JB	0830	0855	8		3 15	
65	KR	0830	0855	8		3 15	
68	CM	0900	0925	5		2 15	
72	JE	0900	0925	6		2 15	
80	AC	0900	0925	5		2 15	
64	JB	0900	0925	5		2 15	
67	KR	0900	0925	5		2 15	
71	CM	0930	0955	5		4 15	
79	JE	0930	0955	5		4 15	
82	AC	0930	0955	5		4 15	
86	JB	0930	0955	5		4 15	
88	KR	0930	0955	5		4 15	
83	CM	1000	1025	5		2 6	
87	JE	1000	1025	6		2 6	
89	AC	1000	1025	5		2 6	
20	JB	1000	1025	5		2 6	
81	KR	1000	1025	5	✓	2 6	

Attach Calibration Sheet

Attach site map showing grid ID

INTEGRATED LANDFILL SURFACE MONITORING

Acron Crompton

Temperature: _____

Page 2 of 2

ENVIRONMENTAL INC.

Landfill: Bredley Landfill

[illegible]

BRADLEY LANDFILL

INTEGRATED LANDFILL SURFACE MONITORING

Personnel:

Craig Markley
Johnny Espinoza
Aaron Compton

Jon Brecher
Karl Ross
Ben Eldridge

Date: 3-9-06 Instrument Used: 1-6

Temperature: 58°

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	ROTO-MTR, CC/MIN	WIND SPEED, MPH/DIRECT	REMARKS
1	CM	0700	0725	5	.333	2 10	
2	JE	0700	0725	6		2 10	
3	AC	0700	0725	8		2 10	
4	JB	0700	0725	8		2 10	
5	KR	0700	0725	5		2 10	
6	BE	0700	0725	5		2 10	
7	CM	0730	0755	5		2 9	
8	JE	0730	0755	8		2 9	
9	AC	0730	0755	5		2 9	
10	JB	0730	0755	6		2 9	
31	KR	0730	0755	6		2 9	
32	BE	0730	0755	5		2 9	
33	CM	0800	0825	8		2 6	
41	JE	0800	0825	5		2 6	
42	AC	0800	0825	5		2 6	
56	JB	0800	0825	5		2 6	
69	KR	0800	0825	5		2 6	
70	BE	0800	0825	6		2 6	
75	CM	0830	0855	5		2 8	
76	JE	0830	0855	5		2 8	
77	AC	0830	0855	5		2 8	
78	JB	0830	0855	5		2 8	
93	KR	0830	0855	6		2 8	
107	BE	0830	0855	5		2 8	
111	CM	0900	0925	20		2 9	
112	JE	0900	0925	5		2 9	
108	AC	0900	0925	5		2 9	
24	JB	0900	0925	6		2 9	
40	KR	0900	0925	8		2 9	
61	BE	0900	0925	5	✓	2 9	

Attach Calibration Sheet
Attach site map showing grid ID

BRADLEY LANDFILL

INTEGRATED LANDFILL SURFACE MONITORING

Personnel:

Craig Mackley

Jon Beecher

Johnny Espinoza

Karl Ross

Aaron Campbell

Brad Elden

Date: 3-9-06

Instrument Used:

1-6

Temperature: _____

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	ROTO-MTR, CC/MIN	WIND SPEED, MPH/DIRECT	REMARKS
101	CM	0930	0955	5	.333	3 8	
104	JE	0930	0955	5		3 8	
113	AC	0930	0955	5		3 8	
95	JB	0930	0955	5		3 8	
98	KR	0930	0955	5		3 8	
102	BE	0930	0955	8		3 8	
105	CM	1000	1025	8		2 8	
109	JE	1000	1025	5		2 8	
114	AC	1000	1025	5		2 8	
116	JB	1000	1025	5		2 8	
118	KR	1000	1025	5		2 8	
123	BE	1000	1025	5		2 8	
124	CM	1030	1055	5		2 9	
66	JE	1030	1055	5		2 9	
73	AC	1030	1055	5		2 9	
81	JB	1030	1055	5		2 9	
84	KR	1030	1055	5		2 9	
85	BE	1030	1055	5		2 9	
90	CM	1200	1225	5		2 8	
96	JE	1200	1225	5		2 8	
99	AC	1200	1225	5		2 8	
103	JB	1200	1225	5		2 8	
106	KR	1200	1225	5		2 8	
110	BE	1200	1225	5		2 8	
115	CM	1230	1255	5		2 10	
117	JE	1230	1255	5		2 10	
120	AC	1230	1255	5		2 10	
121	JB	1230	1255	5		2 10	
122	KR	1230	1255	5		2 10	
125	BE	1230	1255	5	V	2 10	

Attach Calibration Sheet

Attach site map showing grid ID

INTEGRATED LANDFILL SURFACE MONITORING

Beard Elders

Temperature: _____

Attach Calibration Sheet
Attach site map showing grid ID

INTEGRATED LANDFILL SURFACE MONITORING

Craig Markley

Date: 3-9-06

Temperature:

Green chest

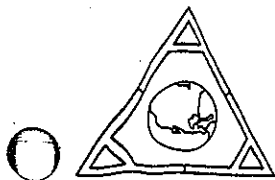
Attach Calibration Sheet

Attach site map showing grid ID

ENVIRONMENTAL INC.

Landfill: Becker Landfill

[illegible]



AtmAA Inc.

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LABORATORY ANALYSIS REPORT

environmental consultants
laboratory services

SCAQMD Rule 1150.1 Components Analysis in Integrated Surface Tedlar Bag Samples

Report Date: March 17, 2006

Client: Shaw Environmental

Project Location: Bradley Landfill

Date Received: March 10, 2006

Date Analyzed: March 10 & 13, 2006

AtmAA Lab No.:

00696-1

00696-2

Sample I.D.:

ISS

ISS

Components

Grid 111

Grid 112

(Concentration in ppmv)

Methane	16.5	2.19
TGNMO	1.78	2.03

(Concentration in ppbv)

Hydrogen sulfide	<50	<50
Benzene	0.32	0.41
Benzylchloride	<0.4	<0.4
Chlorobenzene	<0.2	<0.2
Dichlorobenzenes*	<1.1	<1.1
1,1-dichloroethane	<0.2	<0.2
1,2-dichloroethane	<0.2	<0.2
1,1-dichloroethylene	<0.2	<0.2
Dichloromethane	<0.2	<0.2
1,2-dibromoethane	<0.2	<0.2
Perchloroethylene	<0.1	<0.1
Carbon tetrachloride	0.10	0.10
Toluene	1.55	2.73
1,1,1-trichloroethane	<0.1	<0.1
Trichloroethene	<0.1	<0.1
Chloroform	<0.1	<0.1
Vinyl chloride	<0.2	<0.2
m+p-xylenes	0.62	1.08
o-xylene	0.22	0.37

TGNMO is total gaseous non-methane organics measured and reported as ppm methane.

*total amount containing meta, para, and ortho isomers

Michael L. Porter
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Bradley Landfill
Date Received: March 10, 2006
Date Analyzed: March 10 & 13, 2006

Components	Sample ID	Repeat Analysis		Mean Conc.	% Diff. From Mean
		Run #1	Run #2		
Methane	Grid 111	16.5	16.5	16.5	0.0
TGNMO	Grid 111	1.67	1.89	1.78	6.2
Hydrogen sulfide	Grid 111	(Concentration in ppbv)		---	---
Benzene	Grid 111	0.31	0.34	0.32	4.6
Benzylchloride	Grid 111	<0.4	<0.4	---	---
Chlorobenzene	Grid 111	<0.2	<0.2	---	---
Dichlorobenzenes	Grid 111	<1.1	<1.1	---	---
1,1-dichloroethane	Grid 111	<0.2	<0.2	---	---
1,2-dichloroethane	Grid 111	<0.2	<0.2	---	---
1,1-dichloroethylene	Grid 111	<0.2	<0.2	---	---
Dichloromethane	Grid 111	<0.2	<0.2	---	---
1,2-dibromoethane	Grid 111	<0.2	<0.2	---	---
Perchloroethylene	Grid 111	<0.1	<0.1	---	---
Carbon tetrachloride	Grid 111	0.10	0.10	0.10	0.0
Toluene	Grid 111	1.51	1.59	1.55	2.6
1,1,1-trichloroethane	Grid 111	<0.1	<0.1	---	---
Trichloroethene	Grid 111	<0.1	<0.1	---	---
Chloroform	Grid 111	<0.1	<0.1	---	---
Vinyl chloride	Grid 111	<0.2	<0.2	---	---
m+p-xylenes	Grid 111	0.62	0.62	0.62	0.0
o-xylene	Grid 111	0.21	0.23	0.22	4.5

Two Tedlar bag samples, laboratory numbers 00696-(1 & 2), were analyzed for SCAQMD Rule 1150.1 components, methane, and total gaseous non-methane organics (TGNMO). Agreement between repeat analyses is a measure of precision and is shown above in the column "% Difference from Mean". Repeat analyses are an important part of AtmAA's quality assurance program. The average % Difference from Mean for 7 repeat measurements from two Tedlar bag samples is 2.6%.



[illegible]

LOCATION: Bradley

INTEGRATED SURFACE SAMPLING SHEET

GRID #: 111

DATE: 3-9-06

SAMPLE #: -

FLOW START: 1,333 cc

CLASS #: -

FLOW STOP: 1,333 cc

BAG #: -

TIME START: 0900

SAMPLER #: 1

TIME STOP: 0925

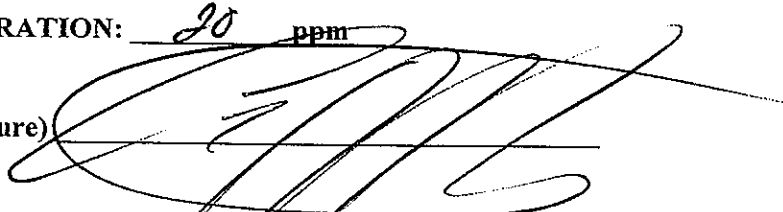
WIND SPEED: _____

BAG STATUS: _____

WIND
DIRECTION:  16 pt

☒ FULL ☐ $\frac{3}{4}$
☐ $\frac{1}{2}$ ☐ $\frac{1}{4}$

METHANE
CONCENTRATION: 20 ppm

Technician: (Signature) 

THE TECHNICIAN WILL BE INSPECTING FOR THE FOLLOWING:

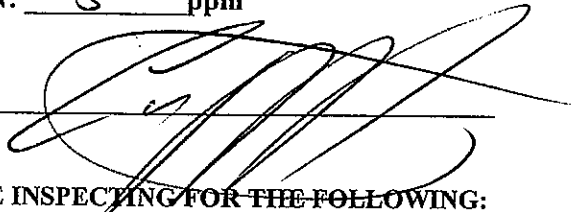
- | | | |
|------------------------|----------------------------------|--------------|
| 1. SETTLEMENT CRACKS; | 2. SHRINKAGE CRACKS; | 3. SLUMPING; |
| 4. SURFACE DEPRESSION; | 5. EXCESSIVELY DRY OR WET AREAS; | |
| 6. RODENT BURROWS; | 7. COVER SOIL EROSIONS | |

COMMENTS: _____

LOCATION: Bradley**INTEGRATED SURFACE SAMPLING SHEET**GRID #: 112DATE: 3-9-06SAMPLE #: -FLOW START: 1333 ccCLASS #: -FLOW STOP: 1333 ccBAG #: -TIME START: 0900SAMPLER #: 2TIME STOP: 0925

WIND SPEED: _____

BAG STATUS:

WIND
DIRECTION: _____ 16 pt☒ FULL ☐ $\frac{3}{4}$
☐ $\frac{1}{2}$ ☐ $\frac{1}{4}$ METHANE
CONCENTRATION: 5 ppmTechnician: (Signature) _____
**THE TECHNICIAN WILL BE INSPECTING FOR THE FOLLOWING:**

- | | | |
|------------------------|----------------------------------|--------------|
| 1. SETTLEMENT CRACKS; | 2. SHRINKAGE CRACKS; | 3. SLUMPING; |
| 4. SURFACE DEPRESSION; | 5. EXCESSIVELY DRY OR WET AREAS; | |
| 6. RODENT BURROWS; | 7. COVER SOIL EROSIONS | |

COMMENTS: _____

APPENDIX C

INSTANTANEOUS SURFACE EMISSION MONITORING

- Field Sheets
- Instrumentation Calibration

BRADLEY LANDFILL

INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel:

Craig Markley
Bill Ross
Bic Damb

Jon Boerher
Rick Cranstead

Date: 1/16/86

Instrument Used: OVA 128-88-108

Temperature: 55°

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	REMARKS
6	CM	0830	0845	5	
5	BR	0830	0845	5	
4	BD	0830	0845	5	
3	JB	0830	0845	5	
2	RC	0830	0845	1000	Well # 46 and on slope Area of Flags
1	CM	0845	0900	5	
32	BR	0845	0900	5	
33	BD	0845	0900	5	
34	JB	0845	0900	5	
41	RC	0845	0900	5	
42	CM	0900	0915	5	
56	BR	0900	0915	5000	Well # 56
69	BD	0900	0915	5	
70	JB	0900	0915	5	
77	RC	0900	0915	5	
76	CM	0915	0930	5	
75	BR	0915	0930	5	
78	BD	0915	0930	5	
93	JB	0915	0930	5000	Well # 205
107	RC	0915	0930	5	
108	CM	0930	0945	5	
111	BR	0930	0945	100000	Line of Flags along Road
112	BD	0930	0945	100000	
7	JB	0930	0945	5	
8	RC	0930	0945	5	
9	CM	0945	1000	5	
10	BR	0945	1000	5	
31	BD	0945	1000	5	
62	JB	0945	1000	5	
63	RC	0945	1000	5	

Attach Calibration Sheet

Attach site map showing grid ID

BRADLEY LANDFILL

INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel:

Craig Markley
Dill Ross
Bic Danh

Tom Beester
Pick Clemshaw

Date: 1-16-05 Instrument Used: OVA 128-88-108

Temperature: _____

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	REMARKS
74	CM	1000	1015	5	
91	BR	1000	1015	5	
92	BD	1000	1015	5	
100	JB	1000	1015	5	
129	RC	1000	1015	5	
130	CM	1015	1030	5	
138	BR	1015	1030	5	
43	BD	1015	1030	5	
50	JB	1015	1030	5	
53	RC	1015	1030	5	
57	CM	1030	1045	5	
64	BD	1030	1045	2,000	Sump B
67	BD	1030	1045	5	
71	JB	1030	1045	5,000	Well #1 EW55
79	RC	1030	1045	5	
82	CM	1045	1100	5	
86	BR	1045	1100	5	
88	BD	1045	1100	5	
94	JB	1045	1100	5	
97	RC	1045	1100	5	
101	CM	1200	1215	5	
104	BR	1200	1215	5	
113	BD	1200	1215	5	
35	JB	1200	1215	5	
36	RC	1200	1215	5	
38	CM	1215	1230	5	
44	BR	1215	1230	5	
46	BD	1215	1230	5	
48	JB	1215	1230	5	
51	RC	1215	1230	5	

Attach Calibration Sheet

Attach site map showing grid ID

INSTANTANEOUS LANDFILL SURFACE MONITORING

INS
Craig Martelley
Bill Ross
Dic Vank

Jon Becker

Rich Crenshaw

Die Bank

Instrument Used:

OVA 128-85-105

[illegible]Page 3 of 3

BRADLEY LANDFILL

INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel:

Robert Johns

Johnny Espinosa

Bill Ross

Carl Ross

Bit Donah

Rick Crenshaw

Date: 1-18-06 Instrument Used:

OVA 125, OVA 88

Temperature:

60°

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	REMARKS
85	RJ	1245	1300	4	
87	BR	1245	1300	4	
89	BD	1245	1300	4	
95	JE	1245	1300	4	
98	CR	1245	1300	4	
102	RC	1245	1300	4	
105	RJ	1300	1315	4	
109	BR	1300	1315	4	
114	BD	1300	1315	4	
116	JE	1300	1315	4	
118	CR	1300	1315	4	
119	RC	1300	1315	4	
123	RJ	1315	1330	4	
124	BR	1315	1330	4	
132	BD	1315	1330	4	
131	JE	1315	1330	4	
127	CR	1315	1330	4	
128	RC	1315	1330	4	
125	RJ	1330	1345	4	
120	BR	1330	1345	4	
121	BD	1330	1345	4	
122	JE	1330	1345	4	
117	CR	1330	1345	4	
115	RC	1330	1345	4	
110	RJ	1345	1400	1,000	E 87
106	BR	1345	1400	1,000	well 179
103	BD	1345	1400	1,000	P 32 PR/SR
99	JE	1345	1400	4	
96	CR	1345	1400	1,000	well EW 59
90	RC	1345	1400	1,000	well EW 89 f Spots

Attach Calibration Sheet

Attach site map showing grid ID

INSTANTANEOUS LANDFILL SURFACE MONITORING

Robert Johns

Johnny Espinoza

B.11 Ross

Carl Ross

Bic Danu²

Rick Crenshaw

Temperature: 60°

[illegible]

Attach Calibration Sheet
Attach site map showing grid ID

LOG OF REMEDIAL WORK FOR INSTANTANEOUS SURFACE MONITORING

Site Name: Bredley Monitoring Period: 1-16-06 Personnel: Craig Markley

[illegible]

1. Monitoring Date
2. TOC Reading in PPM

Signature: _____

ENVIRONMENTAL INC.

Landfill: Bradley

OPERATOR INITIALS	DATE	BATTERY CHECK	FLOW METER READING	ZONE READING			CH4 CALIBRATION GAS UNCORRECTED READINGS						CH4 CALIBRATION GAS CORRECTED READINGS						3PT. CALIBRATION CHECK		
				10	100	1000	LOW		MED		HIGH		LOW		MED		HIGH		PPM	PPM	PPM
				PPM	PPM	PPM	PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT			
CM	1/16/06	OK	1.5																		
BR			2.0									500	500				500	500			500
RC			1.5									500	500				500	500			500
JD			1.5									500	500				500	500			500
BD			1.5									500	500				500	500			500
												500	500				500	500			500

BRADLEY LANDFILL

INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel:

Craig Madley
Bill Ross

Bie Darr

Arson Crompton

Johnny Espinosa

Karl Ross

Date: 2-8-06

Instrument Used: OVA 128-88-108

Temperature: _____

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	REMARKS
1	CM	0715	0730	100,000	On Slope Areas of Flags
2	BR	0715	0730	100,000	On Slope Areas of Flags and Well #44
3	JE	0715	0730	10,000	On Slope Area of Flags
4	BD	0715	0730	5	
5	AC	0715	0730	5,000	Well 87 and Next To Well Area of Flags
6	KR	0715	0730	5	
32	CM	0730	0745	5	
33	DR	0730	0745	1,000	Upper Part of Slope Small Areas of Flags
41	JE	0730	0745	5	
42	BD	0730	0745	5	
56	AC	0730	0745	5	
69	KR	0730	0745	5	
70	CM	0800	0815	5	
75	DR	0800	0815	5	
76	JE	0800	0815	5	
77	BD	0800	0815	5	
78	AC	0800	0815	1,000	Well 135 and a Well No #
93	KR	0800	0815	1,000	Well 109 and Next To
107	CM	0815	0830	2,000	Well 206,
108	BR	0815	0830	5	
111	JE	0815	0830	100,000	Line's of Flags lower Slope and Next To Road, # HD-E
112	BD	0815	0830	50,000	Line's of Flags lower Slope and Next To Road, # HD-B
113	AC	0815	0830	5	
118	KR	0815	0830	5	
119	CM	0830	0845	5	
120	BR	0830	0845	5	
123	JE	0830	0845	5	
124	BD	0830	0845	5	
125	AC	0830	0845	5	
126	KR	0830	0845	5	

Attach Calibration Sheet

Attach site map showing grid ID

BRADLEY LANDFILL

INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel:

Craig Mackley

Bic Dauh

Bill Ross

Aaron Crompton

Johnny Espinoza

Kral Ross

Date: 2-8-06

Instrument Used: QIA 128-88-108

Temperature: 55°

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	REMARKS
127	CM	0845	0900	5	
131	BR	0845	0900	5	
132	JE	0845	0900	5	
121	BD	0845	0900	5	
122	AC	0845	0900	5	
117	KR	0845	0900	5	
115	CM	0900	0915	5	
110	BR	0900	0915	5	
106	JE	0900	0915	5	
103	BD	0900	0915	5	
99	AC	0900	0915	5	
96	KR	0900	0915	5	
90	CM	0915	0930	5	
43	BR	0915	0930	5	
34	JE	0915	0930	5	
50	BD	0915	0930	5	
53	AC	0915	0930	5	
57	KR	0915	0930	5	
67	CM	0930	0945	5	
64	BR	0930	0945	5	
71	JE	0930	0945	5	
79	BD	0930	0945	5	
82	AC	0930	0945	5	
86	KR	0930	0945	5	
88	CM	0945	1000	5	
94	BR	0945	1000	5	
97	JE	0945	1000	5	
101	BD	0945	1000	5	
104	AC	0945	1000	5	
35	KR	0945	1000	5	

Attach Calibration Sheet

Attach site map showing grid ID

BRADLEY LANDFILL

INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel:

Craig Mahley
Bill Ross

Die Danh
Aaron Compton
Karl Ross

Date: 28-06

Instrument Used: OVA 128-88-108

Temperature: _____

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	REMARKS
36	CM	1000	1015	5	
38	BR	1000	1015	5	
44	JE	1000	1015	5	
46	BD	1000	1015	5	
48	AC	1000	1015	5	
51	KR	1000	1015	5	
54	CM	1015	1030	5	
58	BR	1015	1030	5	
65	JE	1015	1030	5	
68	BD	1015	1030	5	
72	AC	1015	1030	5	
80	KR	1015	1030	5	
83	CM	1030	1045	5	
87	BR	1030	1045	2100	Well EW 57
89	JE	1030	1045	5000	Well EW 63
95	DD	1030	1045	5	
20	AC	1030	1045	5	
21	KR	1030	1045	5	
22	CM	1045	1100	5	
23	BR	1045	1100	5	
37	JE	1045	1100	5	
39	BD	1045	1100	5	
45	AC	1045	1100	5	
47	KR	1045	1100	5	
49	CM	1200	1215	5	
52	BR	1200	1215	5	
55	JE	1200	1215	5	
60	BD	1200	1215	5	
59	AC	1200	1215	5	
66	KR	1200	1215	5	

Attach Calibration Sheet
Attach site map showing grid ID

BRADLEY LANDFILL

INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel:

Craig Marshall
Bill Ross
Johnny Espinoza

Bic Dank
Aaron Compton
Karl Ross

Date: 28-06

Instrument Used: OVA 128-88-108

Temperature: _____

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	REMARKS
24	CM	1215	1230	5	
40	BR	1215	1230	5	
61	JE	1215	1230	5	
73	BD	1215	1230	5	
81	AC	1215	1230	5	
85	KR	1215	1230	10000	Well EW-54
84	CM	1230	1245	5	
7	BR	1230	1245	5	
8	JE	1230	1245	5	
9	BD	1230	1245	5	
10	AC	1230	1245	5	
31	KR	1230	1245	5	
63	CM	1245	1300	5	
62	BR	1245	1300	5	
74	JE	1245	1300	5	
91	BD	1245	1300	5	
92	AC	1245	1300	5	
100	KR	1245	1300	5	
128	CM	1300	1315	5	
129	BR	1300	1315	5	
130	JE	1300	1315	5	
19	BD	1300	1315	5	
11	AC	1300	1315	5	
13	KR	1300	1315	5	
12	CM	1315	1330	5	
14	BR	1315	1330	5	
15	JE	1315	1330	5	
16	BD	1315	1330	5	
17	AC	1315	1330	5	
18	KR	1315	1330	5	

Attach Calibration Sheet

Attach site map showing grid ID

INSTANTANEOUS LANDFILL SURFACE MONITORING

Karl Ross

QVA 128-88-108

Attach Calibration Sheet
Attach site map showing grid ID

Page 5 of 5

INSTANTANEOUS LANDFILL SURFACE MONITORING

INSTANT
Craig Mackley

Date: 2-8-06 Instrument Used: Active ARC

Temperature: _____

[illegible]

Page 2 of 2

LOG OF REMEDIAL WORK FOR INSTANTANEOUS SURFACE MONITORING

Site Name: Bradley Landfill Monitoring Period: 2-8-06 Personnel: Craig Markley

[illegible]

1. Monitoring Date
2. TOC Reading in PPM

Signature: _____

RES

ENVIRONMENTAL INC.

OVA CALIBRATION LOG

Landfill: Dredge Landfill

OPERATOR INITIALS	DATE	BATTERY CHECK	FLOW METER READING	ZONE READING			CH4 CALIBRATION GAS UNCORRECTED READINGS						CH4 CALIBRATION GAS CORRECTED READINGS						3PT. CALIBRATION CHECK		
				10	100	1000	LOW		MED		HIGH		LOW		MED		HIGH		PPM	PPM	PPM
				PPM	PPM	PPM	PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT			
CM	7/8/06	OK	1.5																		
BR			2.0									500	500					500	500		500
JE			1.5									500	500					500	500		500
BD			1.5									500	500					500	500		500
AC			1.5									500	500					500	500		500
KR			2.0									500	500					500	500		500
												500	500					500	500		500
												500	500					500	500		500

BRADLEY LANDFILL

INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Craig Markley Big Don
Anton Cumpston Jon Bercher
Red Elder Mike Ore

Date: 3-20-06 Instrument Used: 128-88-108

Temperature: 52°

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	REMARKS
32	CM	0700	0715	5	
33	AC	0700	0715	5	
41	BE	0700	0715	5	
42	BD	0700	0715	5	
56	JB	0700	0715	5	
69	MO	0700	0715	5	
70	CM	0715	0730	5	
75	AC	0715	0730	5	
76	DE	0715	0730	5	
77	BD	0715	0730	5	
78	JB	0715	0730	5	
93	MO	0715	0730	5	
111	CM	0730	0745	1,000	Small Area Next To Road
112	AC	0730	0745	5	
107	BE	0730	0745	1,000	Upper Part of slope Small Area of Flags
108	BD	0730	0745	5	
113	JB	0730	0745	5	
118	MO	0730	0745	5	
123	CM	0745	0800	5	
124	AC	0745	0800	5	
125	BE	0745	0800	5	
126	BD	0745	0800	5	
127	JB	0745	0800	5	
131	MO	0745	0800	5	
132	CM	0800	0815	5	
121	AC	0800	0815	5	
120	BE	0800	0815	5	
122	BD	0800	0815	5	
128	JB	0800	0815	5	
129	MO	0800	0815	5	

Attach Calibration Sheet
 Attach site map showing grid ID

BRADLEY LANDFILL

INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel:

Craig Martin
Aaron Crompton
Bred Elder

B. D. Dush
Jon Beecher
Mike ore

Date: 3-20-06 Instrument Used: OVA-128-88-108

Temperature: _____

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	REMARKS
117	CM	0815	0830	5	
115	AC	0815	0830	5	
110	BE	0815	0830	5	
106	BD	0815	0830	5	
103	JB	0815	0830	5	
99	MO	0815	0830	5	
96	CM	0830	0845	5	
90	AC	0830	0845	5	
85	BE	0830	0845	5	
81	BD	0830	0845	5	
73	JB	0830	0845	5	
66	MO	0830	0845	5	
59	CM	0845	0900	5	
60	AC	0845	0900	5	
55	BE	0845	0900	5	
61	BD	0845	0900	5	
52	JB	0845	0900	5	
49	MO	0845	0900	5	
47	CM	0900	0915	5	
45	AC	0900	0915	5	
40	BE	0900	0915	5	
39	BD	0900	0915	5	
37	JD	0900	0915	5	
23	MO	0900	0915	5	
22	CM	0915	0930	5	
21	AC	0915	0930	5	
20	BE	0915	0930	5	
24	BD	0915	0930	5	
7	JB	0915	0930	5	
6	MO	0915	0930	5	

Attach Calibration Sheet

Attach site map showing grid ID

BRADLEY LANDFILL

INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Craig Madley Bic Drah
Aaron Cumpston Jon Beecher
Brad Eldridge Mike ore

Date: 3-20-06 Instrument Used: OVA 128-88-108

Temperature: ~~0000~~

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	REMARKS
5	CM	0930	0945	5	
4	AC	0930	0945	5	
3	BE	0930	0945	5	
2	BD	0930	0945	5	
1	JB	0930	0945	5	
34	MO	0930	0945	5	
35	CM	0945	1000	5	
36	AC	0945	1000	5	
38	BE	0945	1000	5	
44	BD	0945	1000	5	
46	JB	0945	1000	5	
48	MO	0945	1000	5	
51	CM	1000	1015	5	
54	AC	1000	1015	5	
58	BE	1000	1015	5	
65	BD	1000	1015	5	
68	JB	1000	1015	5	
72	MO	1000	1015	5	
80	CM	1015	1030	5	
83	AC	1015	1030	5	
87	BE	1015	1030	5	
89	BD	1015	1030	5	
95	JB	1015	1030	5	
98	MO	1015	1030	5	
102	CM	1030	1045	5	
105	AC	1030	1045	5	
109	BE	1030	1045	5	
114	BD	1030	1045	5000	Well # EW 79
116	JB	1030	1045	5	
119	MO	1030	1045	5	

Attach Calibration Sheet
 Attach site map showing grid ID

INSTANTANEOUS LANDFILL SURFACE MONITORING

Craig Mackley
Aaron Crompton
Brad Elicker

Bic Danh

Jon Beecher

Mike Ose

Date: 3-20-06 Instrument Used: OVA 128-88-108

Temperature: _____

Upper part of slope. Area of Flats

Page 4 of 4

BRADLEY LANDFILL

INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Craig Markley

Date: 3-20-06 Instrument Used: Active Area, Green West

Temperature: _____

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	REMARKS
71					Active Area.
79					
82					↓
86					
19					Green West
11					
12					↓
13					
14					↓
15					
16					↓
17					
18					↓
25					
26					↓
27					
28					↓
29					
30					↓

Attach Calibration Sheet
Attach site map showing grid ID

Figure 1

Site Name: Bradley Landfill

Monitoring Period: 3-20-06

Personnel: Craig Markley

[illegible]

1. Monitoring Date
2. TOC Reading in PPM

Signature:

79

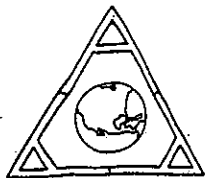
Landfill: Bradley Landfill

[illegible]

APPENDIX D

LANDFILL GAS SAMPLING

- Laboratory Analysis
- Chain-of-Custody



AtmAA Inc.

23917 Craftsman Rd., Calabasas, CA 91302 • (818) 223-3277 • FAX (818) 223-8250

LABORATORY ANALYSIS REPORT

environmental consultants
laboratory services

SCAQMD Rule 1150.1 Components Analysis in Landfill Gas Tedlar Bag Samples

Report Date: March 1, 2006

Client: Shaw Environmental

Project Location: Bradley Landfill

Client Project No.: 108341.01

Date Received: February 21, 2006

Date Analyzed: February 21 & 22, 2006

AtmAA Lab No.: Sample I.D.:	00526-4 Gas Plant BL-001	00526-5 Flare #3 BL-002	00526-6 Flare #1 BL-003	00526-7 Flare #2 BL-004
Components	(Concentration in %,v)			
Nitrogen	17.5	35.3	18.6	47.0
Oxygen	1.08	4.35	1.23	3.89
Methane	43.2	31.3	42.7	24.2
Carbon dioxide	37.4	27.9	36.9	24.8
TGNMO	8720	5300	7890	2680
Hydrogen sulfide	19.9	19.7	46.6	34.9
(Concentration in ppmv)				
Benzene	3010	11600	4210	1930
Benzylchloride	<40	<40	<40	<40
Chlorobenzene	184	282	199	234
Dichlorobenzenes*	972	230	298	364
1,1-dichloroethane	181	100	176	52.2
1,2-dichloroethane	80.8	42.1	69.5	24.8
1,1-dichloroethylene	72.4	40.7	68.5	<40
Dichloromethane	633	192	620	42.7
1,2-dibromoethane	<30	<30	<30	<30
Perchloroethylene	2050	868	1730	480
Carbon tetrachloride	<30	<30	<30	<30
Toluene	41000	22600	35900	7370
1,1,1-trichloroethane	<20	<20	<20	<20
Trichloroethene	641	276	571	162
Chloroform	<20	<20	<20	<20
Vinyl chloride	208	245	183	401
m+p-xylenes	18900	9540	13800	7160
o-xylene	5900	3110	4120	2640
(Unit / ft.3)				
BTU	443	320	438	247


The reported oxygen concentration includes any argon present in the sample. Calibration is based on a standard atmosphere containing 20.95% oxygen and 0.93% argon.

The accuracy of the TCD/GC Method for permanent gases is +/- 2%, actual results are reported.

TGNMO is total gaseous non-methane organics measured and reported as ppm methane.

* total amount containing meta, para, and ortho isomers

BTU is calculated from the analysis of methane and TGNMO.


Michael L. Porter
Laboratory Director



AtmAA Inc.

23917 Craftsman Rd., Calabasas, CA 91302 • (818) 223-3277 • FAX (818) 223-8250

LABORATORY ANALYSIS REPORT

environmental consultants
laboratory services

Hydrogen Sulfide and Reduced Sulfur Compounds Analysis In Landfill Gas Tedlar Bag Samples

Report Date March 1, 2006

Client: Shaw Environmental

Project Location: Bradley Landfill

Client Project No.: 108341.01

Date Received: February 21, 2006

Date Analyzed: February 21 & 22, 2006

ANALYSIS DESCRIPTION

Hydrogen sulfide was analyzed by gas chromatography with a Hall electrolytic conductivity detector operated in the oxidative sulfur mode. All other sulfur components were measured by GC/ Mass Spec.

AtmAA Lab No.:	00526-4	00526-5	00526-6	00526-7
Sample I.D.:	Gas Plant	Flare #3	Flare #1	Flare #2
	BL-001	BL-002	BL-003	BL-004
Components	(Concentration in ppmv)			
Hydrogen sulfide	48.2	19.9	46.6	34.9
Carbonyl sulfide	0.38	0.22	0.39	0.25
Methyl mercaptan	5.58	3.62	4.91	1.13
Ethyl mercaptan	<0.1	<0.1	<0.1	0.17
Dimethyl sulfide	7.69	7.01	6.42	1.12
Carbon disulfide	0.16	0.082	0.095	0.22
Isopropyl mercaptan	0.36	0.13	0.30	<0.08
n-propyl mercaptan	0.081	<0.08	<0.08	<0.08
Dimethyl disulfide	0.43	0.66	0.46	0.55
TRS	63.5	32.4	59.7	39.1

TRS - total reduced sulfur

Michael L. Porter
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Bradley Landfill
Date Received: February 21, 2006
Date Analyzed: February 21 & 22, 2006

Components	Sample ID	Repeat Analysis		Mean Conc.	% Diff. From Mean
		Run #1	Run #2		
		(Concentration in %,v)			
Nitrogen	Gas Plant	17.5	17.5	17.5	0.0
	Flare #2	47.1	46.9	47.0	0.21
Oxygen	Gas Plant	1.10	1.07	1.08	1.4
	Flare #2	3.84	3.94	3.89	1.3
Methane	Gas Plant	43.2	43.3	43.2	0.12
	Flare #2	24.2	24.2	24.2	0.0
Carbon dioxide	Gas Plant	37.4	37.3	37.4	0.13
	Flare #2	24.8	24.8	24.8	0.0
(Concentration in ppmv)					
TGNMO	Flare #1	8020	7760	7890	1.6
(Concentration in ppbv)					
Benzene	Flare #3	11600	11500	11600	0.43
Benzylchloride	Flare #3	<40	<40	---	---
Chlorobenzene	Flare #3	288	275	282	2.3
Dichlorobenzenes	Flare #3	252	207	230	9.8
1,1-dichloroethane	Flare #3	101	100	100	0.50
1,2-dichloroethane	Flare #3	41.7	42.5	42.1	0.95
1,1-dichloroethylene	Flare #3	39.4	42.0	40.7	3.2
Dichloromethane	Flare #3	191	192	192	0.26
1,2-dibromoethane	Flare #3	<30	<30	---	---
Perchloroethylene	Flare #3	882	855	868	1.6
Carbon tetrachloride	Flare #3	<30	<30	---	---
Toluene	Flare #3	22700	22400	22600	0.66



QUALITY ASSURANCE SUMMARY
(Repeat Analyses)
(continued)

Components	Sample ID	Repeat Analysis		Mean Conc.	% Diff. From Mean
		Run #1	Run #2		
		(Concentration in ppbv)			
1,1,1-trichloroethane	Flare #3	<20	<20	---	---
Trichloroethene	Flare #3	278	275	276	0.54
Chloroform	Flare #3	<20	<20	---	---
Vinyl chloride	Flare #3	244	246	245	0.41
m+p-xylenes	Flare #3	9770	9300	9540	2.5
o-xylene	Flare #3	3220	3000	3110	3.5
(Concentration in ppmv)					
Hydrogen sulfide	Gas Plant	48.4	47.9	48.2	0.52
	Flare #3	20.1	19.7	19.9	1.0
	Flare #1	46.6	46.7	46.6	0.11
	Flare #2	36.0	33.8	34.9	3.2
Carbonyl sulfide	Flare #3	0.22	0.23	0.22	2.2
Methyl mercaptan	Flare #3	3.55	3.70	3.62	2.1
Ethyl mercaptan	Flare #3	<0.1	<0.1	---	---
Dimethyl sulfide	Flare #3	6.92	7.10	7.01	1.3
Carbon disulfide	Flare #3	0.081	0.084	0.082	1.8
iso-propyl mercaptan	Flare #3	0.13	0.13	0.13	0.0
n-propyl mercaptan	Flare #3	<0.08	<0.08	---	---
Dimethyl disulfide	Flare #3	0.64	0.68	0.66	3.0

Four Tedlar bag samples, laboratory numbers 00526-(4-7), were analyzed for SCAQMD 1150.1 components, permanent gases, TGNMO, hydrogen sulfide, and reduced sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% Difference from Mean". Repeat analyses are an important part of AtmAA's quality assurance program. The average % Difference from Mean for 32 repeat measurements from the four Tedlar bag samples is 1.4%.





Company Name: Shaw Environmental & Infra., Inc.
Address: 9081 Tujunga Avenue
City / State / Zip: Sun Valley, CA 91352
Manager: Darrell Thompson
Phone/Fax Number: 818-767-0444
Send Report To: Tom Sandhu
Address: 9081 Tujunga Avenue
City: Sun Valley, CA 91352
Project Contact: Tom Sandhu
Phone/Fax Number: (818) 822-5273

Ref. Document

Page 1 of 1

Project Number: 108341.01

Project Name: Bradley Landfill

Project Location: Sun Valley, California

Purchase Order #:

Lab Destination: AtmAA, Inc.

Lab Contact: Micheal

Lab Phone #: (818) 223-3277

Program

Navy

AFCEE

007

☒ USACE

NPDES

RCRA

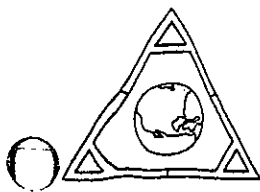
Other

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APPENDIX E

AMBIENT AIR SAMPLING

- Laboratory Analysis
- Chain of Custody
- Wind Speed and Direction Records



AtmAA Inc.

23917 Craftsman Rd., Calabasas, CA 91302 • (818) 223-3277 • FAX (818) 223-8250

LABORATORY ANALYSIS REPORT

environmental consultants
laboratory services

SCAQMD Rule 1150.1 Components Analysis in Ambient Air Tedlar Bag Samples

Report Date: March 14, 2006
Client: Waste Management
Project Location: Bradley Landfill
Date Received: March 7, 2006
Date Analyzed: March 7 & 8, 2006

AtmAA Lab No.: Sample I.D.:	00666-2 Ambient Air AA-1	00666-3 Ambient Air AA-2	00666-4 Ambient Air AA-3	00666-5 Ambient Air AA-4
Components	(Concentration in ppmv)			
Methane	2.54	2.35	4.13	3.19
TGNMO	1.28	1.58	1.26	1.10
(Concentration in ppbv)				
Hydrogen sulfide	<50	<50	<50	<50
Benzene	0.34	0.44	0.69	0.75
Benzylchloride	<0.4	<0.4	<0.4	<0.4
Chlorobenzene	<0.2	<0.2	<0.2	<0.2
Dichlorobenzenes*	<1.1	<1.1	<1.1	<1.1
1,1-dichloroethane	<0.2	<0.2	<0.2	<0.2
1,2-dichloroethane	<0.2	<0.2	<0.2	<0.2
1,1-dichloroethylene	<0.2	<0.2	<0.2	<0.2
Dichloromethane	0.22	0.29	0.35	0.35
1,2-dibromoethane	<0.2	<0.2	<0.2	<0.2
Perchloroethylene	<0.1	<0.1	<0.1	<0.1
Carbon tetrachloride	0.10	0.10	0.10	0.10
Toluene	0.90	1.65	2.39	1.54
1,1,1-trichloroethane	<0.1	<0.1	<0.1	<0.1
Trichloroethene	<0.1	<0.1	<0.1	<0.1
Chloroform	<0.1	<0.1	<0.1	<0.1
Vinyl chloride	<0.2	<0.2	<0.2	<0.2
m+p-xylenes	0.62	0.69	1.01	0.69
o-xylene	0.28	0.28	0.37	0.23

TGNMO is total gaseous non-methane organics measured and reported as ppm methane.

* total amount containing meta, para, and ortho isomers

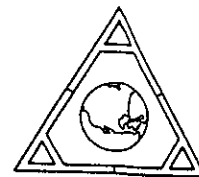

Michael L. Porter
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Bradley Landfill
Date Received: March 7, 2006
Date Analyzed: March 7 & 8, 2006

Components	Sample ID	Repeat Analysis		Mean Conc.	% Diff. From Mean
		Run #1	Run #2		
		(Concentration in ppmv)			
Methane	AA-1	2.52	2.56	2.54	0.79
TGNMO	AA-1	1.44	1.12	1.28	12
		(Concentration in ppbv)			
Hydrogen sulfide	AA-1	<50	<50	---	---
Benzene	AA-1	0.38	0.31	0.34	10
Benzylchloride	AA-1	<0.4	<0.4	---	---
Chlorobenzene	AA-1	<0.2	<0.2	---	---
Dichlorobenzenes	AA-1	<1.1	<1.1	---	---
1,1-dichloroethane	AA-1	<0.2	<0.2	---	---
1,2-dichloroethane	AA-1	<0.2	<0.2	---	---
1,1-dichloroethylene	AA-1	<0.2	<0.2	---	---
Dichloromethane	AA-1	0.23	0.20	0.22	7.0
1,2-dibromoethane	AA-1	<0.2	<0.2	---	---
Perchloroethylene	AA-1	<0.1	<0.1	---	---
Carbon tetrachloride	AA-1	0.10	0.10	0.10	0.0
Toluene	AA-1	0.90	0.90	0.90	0.0
1,1,1-trichloroethane	AA-1	<0.1	<0.1	---	---
Trichloroethene	AA-1	<0.1	<0.1	---	---
Chloroform	AA-1	<0.1	<0.1	---	---
Vinyl chloride	AA-1	<0.2	<0.2	---	---
m+p-xylenes	AA-1	0.60	0.64	0.62	3.2
o-xylene	AA-1	0.28	0.28	0.28	0.0

Four Tedlar bag samples, laboratory numbers 00666-(2-5), were analyzed for SCAQMD Rule 1150.1 components, methane, and total gaseous non-methane organics (TGNMO). Agreement between repeat analyses is a measure of precision and is shown above in the column "% Difference from Mean". Repeat analyses are an important part of AtmAA's quality assurance program. The average % Difference from Mean for 8 repeat measurements from four Tedlar bag samples is 4.1%.



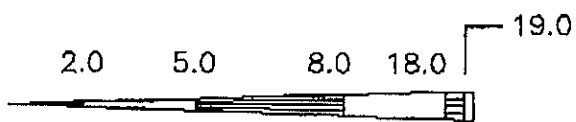
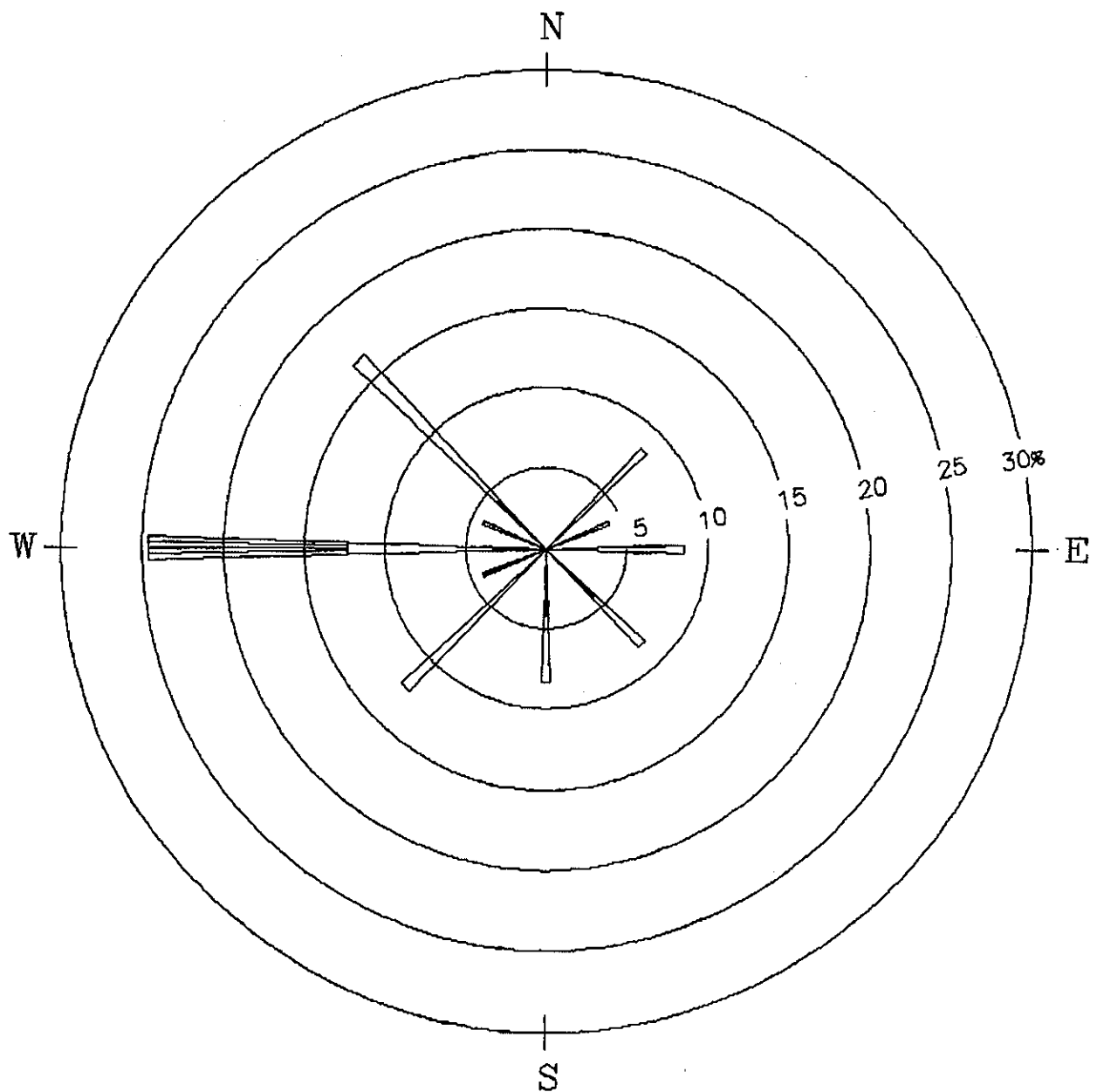
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BRADLEY LANDFILL

Data: Wind Rose
 Station: BRADLEY
 Period: MAR 05, - MAR 06,
 Hours: 10 - 09

Wind Speed and Direction
 Frequency Distribution

Direction	Wind Speed (MPH) Group					TOT	%TOT	AVE SPEED
	0-2	3-5	6-8	9-18	19+			
16	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00
1	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00
2	0.0	8.3	0.0	0.0	0.0	2.0	8.33	3.50
3	0.0	4.1	0.0	0.0	0.0	1.0	4.17	4.00
4	0.0	8.3	0.0	0.0	0.0	2.0	8.33	4.00
5	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00
6	4.1	4.1	0.0	0.0	0.0	2.0	8.33	2.50
7	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00
8	4.1	4.1	0.0	0.0	0.0	2.0	8.33	2.50
9	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00
10	0.0	12.0	0.0	0.0	0.0	3.0	12.50	4.33
11	0.0	0.0	4.1	0.0	0.0	1.0	4.17	8.00
12	0.0	12.0	12.0	0.0	0.0	6.0	25.00	6.17
13	0.0	4.1	0.0	0.0	0.0	1.0	4.17	5.00
14	4.1	12.0	0.0	0.0	0.0	4.0	16.67	3.00
15	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00
MSG	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00
TOT	12.0	70.0	16.0	0.0	0.0	24.0	100.00	2.69



WIND SPEED CLASS BOUNDARIES
(MILES/HOUR)

NOTES:
 DIAGRAM OF THE FREQUENCY OF
 OCCURRENCE FOR EACH WIND DIRECTION.
 WIND DIRECTION IS THE DIRECTION
 FROM WHICH THE WIND IS BLOWING.
 EXAMPLE - WIND IS BLOWING FROM THE
 NORTH .0 PERCENT OF THE TIME.

WINDROSE

BRADLEY LANDFILL
 PERIOD: 5/5-6/06

BRADLEY LANDFILL

Data: Wind Speed (MPH)
 Station: BRADLEY
 Period: MAR, 2006

Clock Time

Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MAX	HR.	AVE.
1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0.00
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0.00
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0.00
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0.00
5											4	4	5	8	8	8	8	5	5	5	4	3	3	2	8	13	5.14
6	3	2	3	4	4	4	3	4	3	2															4	3	3.20
AV	3	2	3	4	4	4	3	4	3	2	4	4	5	8	8	8	8	5	5	5	4	3	3	2			4.17
SD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			

BRADLEY LANDFILL

Data: Wind Direction (16 points)
Station: BRADLEY
Period: MAR, 2006

Clock Time

[illegible]

APPENDIX F

TEDLAR BAG QUALITY ASSURANCE AND CONTROL

- Tedlar Bag Checklist

BAG SAMPLER QUALITY CONTROL

PROJECT/SITE: BRADLEY LANDFILL BAG # _____
DATE PREPARED: 3-3-06 PREPARED BY: CMS
SAMPLER # 5 RUN DATE: 3-5-06

BAG INSTALLATION

BAG INSTALLED BY: CMS DATE: 3-5-06
FLOW READING: 85^{cc} ADJUSTED ? () NO () OPEN VALVE ☒
TIME STARTED:
LOCAL 0900
LOCATION: AA-1

BAG REMOVAL

BAG REMOVED BY: CMS DATE: 3-5-06
CLOSE VALVE ☒ FLOW AT END: 85^{cc}
BAG STATUS: FULL ☒ 1/2 FULL () EMPTY ()
TIME ENDED:
LOCAL 2100
SAMPLER STATUS: WORKING ☒ NOT WORKING ()
(specify in comments)
BATTERY STATUS GOOD ☒ BAD ()

COMMENTS: _____

REVIEWED BY: CMS

BAG SAMPLER QUALITY CONTROL

PROJECT/SITE: BRADLEY LANDFILL BAG # _____
DATE PREPARED: 3-3-06 PREPARED BY: CMS
SAMPLER # 5 RUN DATE: 3-5-06

BAG INSTALLATION

BAG INSTALLED BY: CMS DATE: 3-5-06
FLOW READING: 85^{cc} ADJUSTED ? () NO () OPEN VALVE ☒
TIME STARTED:
LOCAL 2100
LOCATION: AA-3

BAG REMOVAL

BAG REMOVED BY: CMS DATE: 3-6-06
CLOSE VALVE ☒ FLOW AT END: 85^{cc}
BAG STATUS: FULL ☒ 1/2 FULL () EMPTY ()
TIME ENDED:
LOCAL 0800
SAMPLER STATUS: WORKING ☒ NOT WORKING ()
(specify in comments)
BATTERY STATUS GOOD ☒ BAD ()
COMMENTS: _____

REVIEWED BY: CMS



Environmental Inc.

BAG SAMPLER QUALITY CONTROL

PROJECT/SITE: BRADLEY LANDFILL BAG # _____
DATE PREPARED: 3-3-06 PREPARED BY: CMS
SAMPLER # 6 RUN DATE: 3-5-06

BAG INSTALLATION

BAG INSTALLED BY: CMS DATE: 3-5-06
FLOW READING: 85^{cc} ADJUSTED ? () NO () OPEN VALVE ☒
TIME STARTED:
LOCAL 0900
LOCATION: AA-2

BAG REMOVAL

BAG REMOVED BY: CMS DATE: 3-5-06
CLOSE VALVE ☒ FLOW AT END: 85^{cc}
BAG STATUS: FULL ☒ 1/2 FULL () EMPTY ()
TIME ENDED:
LOCAL 2100
SAMPLER STATUS: WORKING ☒ NOT WORKING ()
(specify in comments)
BATTERY STATUS GOOD ☒ BAD ()

COMMENTS: _____

REVIEWED BY: CMS



Environmental Inc.

BAG SAMPLER QUALITY CONTROL

PROJECT/SITE: BRADLEY LANDFILL BAG # _____
DATE PREPARED: 3-3-06 PREPARED BY: CMS
SAMPLER # 6 RUN DATE: 3-5-06

BAG INSTALLATION

BAG INSTALLED BY: CMS DATE: 3-5-06
FLOW READING: 85^{cc} ADJUSTED ? () NO () OPEN VALVE ☒
TIME STARTED:
LOCAL 2100
LOCATION: AA-4

BAG REMOVAL

BAG REMOVED BY: CMS DATE: 3-6-06
CLOSE VALVE ☒ FLOW AT END: 85^{cc}
BAG STATUS: FULL ☒ 1/2 FULL () EMPTY ()
TIME ENDED:
LOCAL 0900
SAMPLER STATUS: WORKING ☒ NOT WORKING ()
(specify in comments)
BATTERY STATUS GOOD ☒ BAD ()

COMMENTS: _____

REVIEWED BY: CMS